# COMPUTER MEMORY MANAGEMENT AT RAND

A. C. Shetler

S. Glaseman

May 1971

NATIONAL TECHNICAL INFORMATION SERVICE



P-4585

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A. C. Shetler S. Glaseman

The Rand Corporation, Santa Monica, California

# I. INTRODUCTION

When the Rand Computation Center (RCC) first put the 360/65 into production status (December 1968), the memory management considerations were confined to approximately 350K<sup>1</sup> of Processor Storage in which our job stream was multiprogrammed.<sup>2</sup> The problems of core fragmentation and appropriate scheduling algorithms for the efficient utilization of the computer resources were minimal since the environment was dynamic in the sense that any particular unfavorable situation lasted a relatively short period of time. The users in this batch processing environment were usually unaware of memory management problems as long as turnaround was not affected.

Approximately 18 months ago (September 1969) RCC added one million bytes of IBM  ${\rm LCS}^3$  for use in supporting an on-line system for our users. When the LCS was added, there were immediate memory management problems needing resolution.

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Part of this paper was presented at SHARE XXXVI, March 8-12, 1971, Los Angeles.

One K is equivalent to 1024 bytes, or 256 words of system 360 storage; one byte has 4 bits; one word is composed of 4 bytes.

<sup>&</sup>lt;sup>2</sup>Multiprogramming is a software mechanism whereby several jobs can execute concurrently in a computer.

<sup>&</sup>lt;sup>3</sup>LCS is slower-access memory that can be added to a computer. The difference between the Processor Storage access speed and the LCS access speed is approximately 8 to 1; hence a job would use approximately eight times the number of CPU cycles to execute in LCS as would be required by the same job in Processor Storage.

The batch jobs had to be prevented from executing in LCS. Accidental execution in this slower-speed memory would have created severe secounting problems. It was also necessary to reserve storage for the interactive system when it was not resident. In the case of an ABEND operations would have to quiesce the operating system to restart the interactive system in the desired memory location. This action was certain to affect turnaround for the batch user and delay restart for the on-line user. Though not a primary consideration, the ability to reserve regions with specific memory locations for on-line applications was also found to be desirable. RCC anticipated having several users with interactive programs resident in the machine for several hours; with standard MVT memory management core fragmentation could have become a problem. By restricting these users to predefined regions, core fragmentation could be eliminated for these applications.

Hierarchy Support was rejected as an alternative for managing memory because it did not solve the problem. After the special SYSGEN required, the special link-edits required for tasks using the Hierarchy Storage, and the resident memory required for Hierarchy Support, the problems previously defined still existed. The batch user, by using a JCL manual, could still execute a LCS, though now it would be purposeful. The LCS would still have to be quiesced to guarantee the interactive system storage placement. The core fragmentation from long-running interactive user tasks would still be a part of the Hierarchy Supported environment.

The May 27, 1969 issue of the IBM Installation Newsletter described a non-supported, release dependent, modification to the Initiator which allowed memory locations to be assigned to a particular initiator. This was a relatively easy modification to implement, costing less than 100 bytes of non-resident storage, and appeared to solve our problems. This

Hierarchy Support is a SYSGEN option for OS/MVT. It provides for overt selection of the desired memory speed for program execution in slower-speed memory, and default selection of Processor Storage for normal job execution.

The Initiator is an OS system task which handles the housekeeping activities associated with getting a job started and terminated in the system. An Initiator handles jobs sequentially in the system.

modification to the Initiator provided a mechanism whereby when the initiator is started it retains a region of a fixed size, executing the tasks it attaches in this fixed region.

Section II will describe the current environment of the Rand Computation Center. Section III will detail what kind of memory management is accomplished through fixed initiators. Section IV will describe the externals and internals of Fixed Initiator implementation and Sec. V will summarize the effect of this mechanism for memory management.

# II. INSTALLATION ENVIRONMENT

A brief description of the RCC environment should aid in describing the production mode of operation using Fixed Initiators to Fence Core.

# HARDWARE

Figure II-1 is a diagram of the hardware configuration as of March 1, 1971. There are multiple manufacturer's equipment attached to the IBM 360/65. A Calcomp 2314 disk device, Potter 7-track tape drives, and 1024K of AMPEX ECM<sup>1</sup> have successfully been running in RCC, at a significant cost savings.

### SOFTWARE

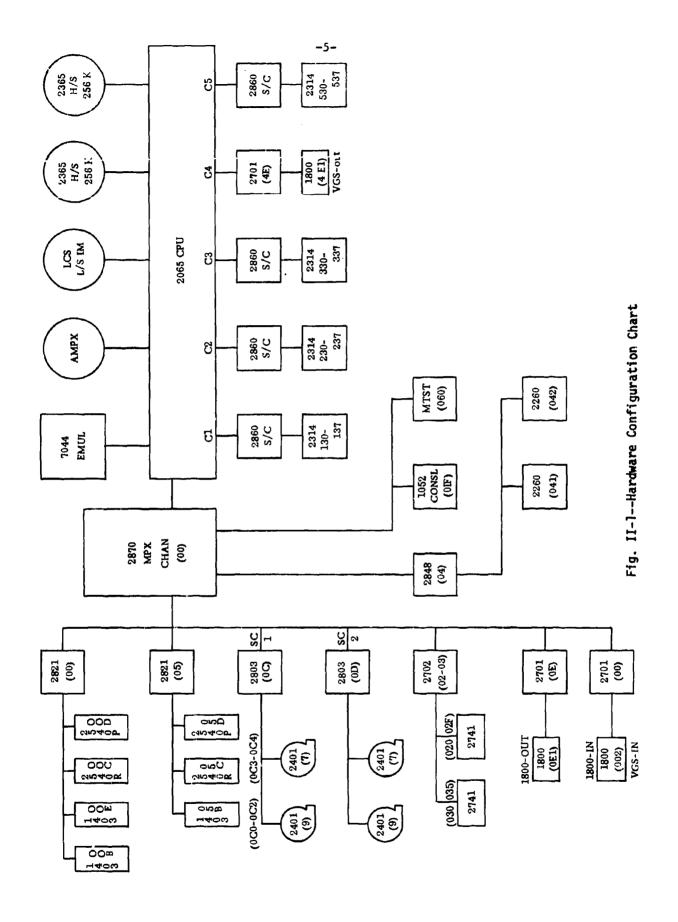
The production software for the IBM 360/65 is OS/MVT, multiprogramming with a variable number of tasks. There are several local modifications to this system. Several user SVC's have been included for support of the Video Operating System (VOS), Conventional Programming System (CPS), and user systems. The initiator has been modified to allow fixed and floating initiators. Force Task Switching has been implemented to resolve lock-out problems for our on-line users (also applies to the batch environment). Prior to Release 19.3 of MVT there were Rand modifications to collect EXCP counts and high water mark for memory utilization. Release 19.3 saw the end of the accounting patches and the introduction of SMF<sup>2</sup> with extensive use of the user exits.

# WORKLOAD CHARACTERISTICS

RCC, during March, is converting from Release 17 to Release 19.3 of MVT on a 360/65 with the usual accompaniment of peripheral devices.

AMPEX ECM is a faster slow-speed storage with an access speed of 2.8 to 1 compared to Processor Storage; that is, a task would take approximately 2.8 times the CPU to execute in ECM as compared to an execution in Processor Storage.

<sup>&</sup>lt;sup>2</sup>System Management Facilities is an OS SYSGEN option to collect and record resource usage by job.



Over two hundred batch jobs are processed every day; these are logged in over the counter and returned via the PAL box. Over one hundred RJE jobs are processed every day; these are entered through the two on-line systems. Two on-line systems, having RJE facilities, are available for users between 9:00 a.m. and midnight daily. An IBM/7044 is emulated approximately 30 minutes a night. When measured, the CPU activity is above the 70 percent level.

# **OBJECTIVES**

The Rand Computation Center has specific objectives directing services for our users. First, computing must be provided for corporate and research data processing. Second, hardware and software support must be provided for users developing new systems. And third, interactive services should be provided for the users, and when necessary services do not exist, these services are to be developed. These objectives result in one major constraint on our system. The hardware and software must be maintained in a state that permits easy implementation of new user systems; any system modifications imposing inflexibilities usually cannot be implemented. This restricts the improvements we can make on the system by the effect on the flexibility necessary for the users. And not unlike most computer installations, these objectives and constraints are subject to the overriding requirement for stability and reliability in the system.

# III. FIXED INITIATOR CONTROL OF MEMORY

Having discussed the background for and the environment of our Fenced System, let us examine how it is used. Figure III-1 is a memory allocation diagram. There are two and a half million bytes of storage to support our Batch and On-Line/RJE processing. We have 512K of Processor Storage, 1024K of IBM LCS, and 1024K of AMPEX ECM.

# BATCH PROCESSING

Figure III-2 describes the Batch Processing environment. In this 512K of Processor Storage, 350K is available for the Batch jobs. This is Rand's MVT environment with 3 or 4 active initiators. The Reader and Writer tasks are not resident in this storage; they reside in the slower-speed memory. Core Fencing controls the batch processing by preventing batch jobs from running in slower-speed storage

# ON-LINE PROCESSING

Figure III-3 describes the On-line Processing environment. There are three user tasks and one system task that make up the on-line systems.

The first of these user tasks is a Rand-developed system, VOS. The Video Operating System is a message switching task which performs communication between active OS tasks and the user at a Video Terminal via a 2701 data line between the IBM 1800 and 360/65. Through VOS a user at a Video Terminal can communicate with any or all on-line systems active in OS. And since VOS can provide message paths between the Video Terminal and any tasks in the system, a single user can be connected with several tasks at one time. There are 24 Video Terminals available for the users.

The next user task is Simultaneous Graphics System (SGS), also a Rand-developed system. It is a text editor with RJE facilities. Up to 10 users can be supported in a 60K region. Communications between SGS and the users is through the VOS system.

The third user task is CPS, the class A supported Conversational Programming System with Rand modifications. The PL/1 subset, CPS, is

# **MEMORY ALLOCATION**

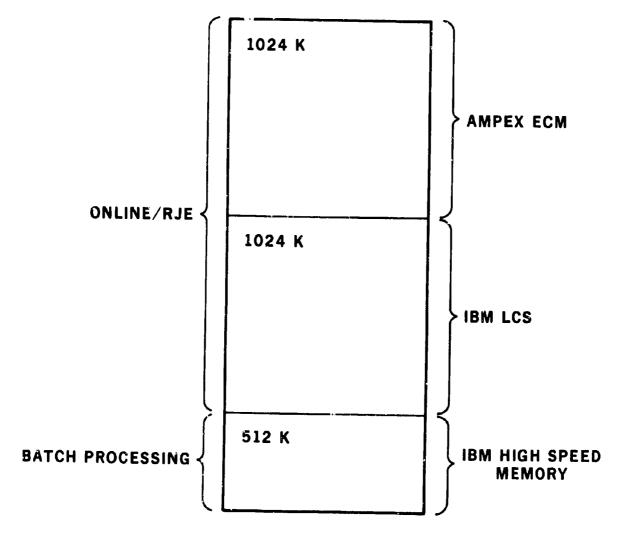


Fig. III-1--Memory Allocation

# BATCH PROCESSING

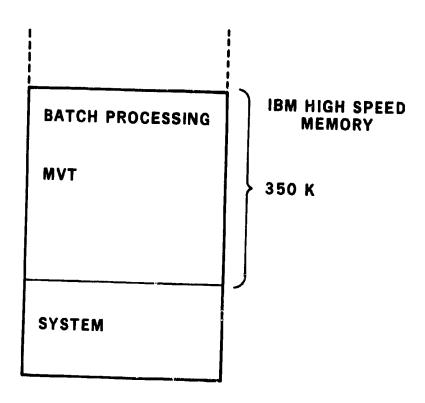


Fig. III-2--Batch Processing

# **ONLINE SYSTEMS**

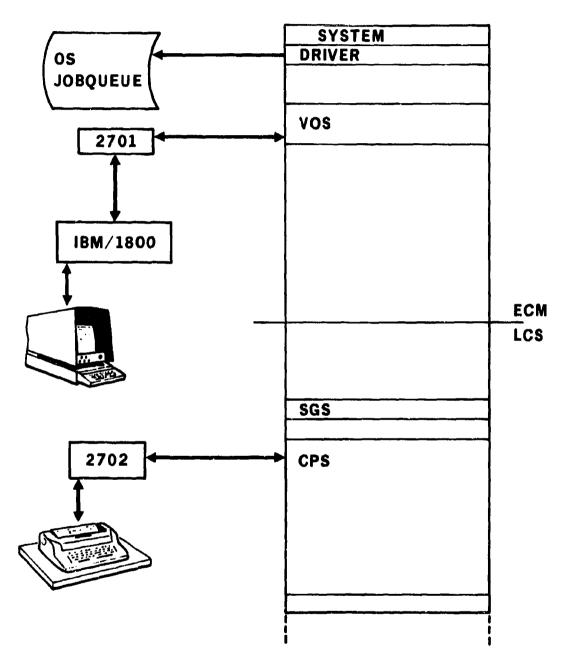


Fig. III-3--On-Line Systems

provided, as is the text editing with RJE facilities. Communication with CPS is through the 2701 to the 2741 typewriter terminals, or through the VOS to the Video Terminals. The Video Communication with CPS is one of the Rand modifications to CPS.

At the top of Fig. III-3 is a System task called DRIVER. DRIVER is a resident reader facility which sequentially processes RJE jobs passed from either SGS or CPS, and enters these jobs into the standard OS job queue. CPS or SGS can pass RJE jobs to DRIVER. Since DRIVER is a system task it must be active to reserve memory. The three user tasks, VOS, SGS, and CPS have Fixed Initiators which reserve the Storage for them when they are not resident.

# RJE PROCESSING

In Fig. III-4, which describes RJE Processing, VOS is included because the video facilities are also available to the RJE processing regions. There are three 228K regions, three 104K regions, and one 64K region. The jobs executed in these regions are entered into the system via RJE through DRIVER. These jobs or tasks can include any processing that is normally done in the batch mode, with limitations on tape and disk mounts. That is, normal batch processing can be executed in these regions if the user is willing to pay for the slower-access memory. The purpose of these regions is to permit user-developed on-line systems nonfragmented storage for debugging and production processing. These regions are also used in another way. They can be reserved for projects which require rapid access to the system. An example of this is our Pseudo-50.

A bit of an explanation is necessary for the Pseudo-50. A 360/50 with 256K of Processor Storage, a 5-drive 2314, a printer, a card reader/punch, and a sign-in sheet sat in one corner of the Computer Room, where the users ran in a hands-on mode. These users also had access to the Video system; they IPLed the 360/50 and ran their jobs hands-on.

In order to save money the reader/punch and the printer were connected to the 360/65 and an OS Reader and Writer were provided for these devices, as indicated in Fig. III-5. A Fixed Initiator provided a

# **RJE PROCESSING**

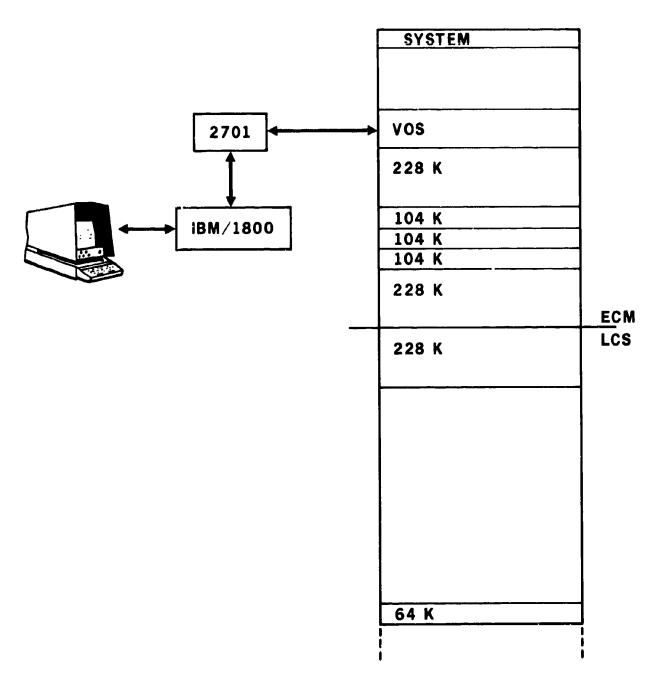


Fig. III-4--RJE Processing

# PSEUDO-50

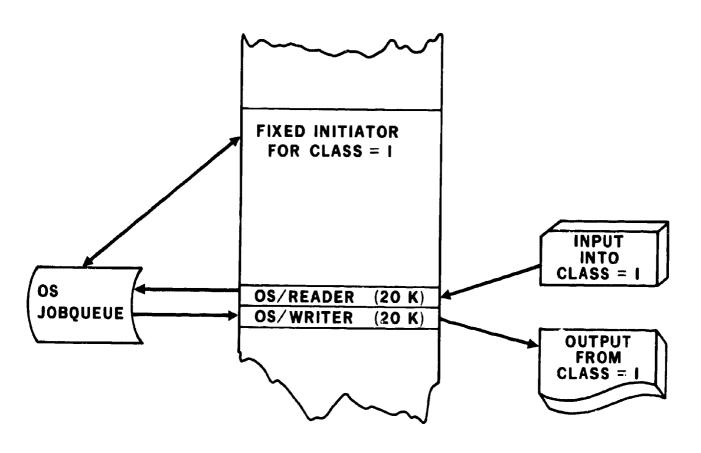


Fig. III-5--Pseudo-50

300K Fenced Region for our Pseudo-50. The sign-in log was maintained and three 2314 drives on the 360/65 were made available to these users. The 360/50 CPU, 256K Processor Storage, and the 5-drive 2314 were returned. The Pseudo-50 user could still enter his cards through the reader, sending the job into the standard OS job queue on the 360/65. The job would be picked up by the Fixed Initiator assigned to the appropriate job class, and when the job completed, the printer output was directed to the printer or card punch at the user location; hence the Pseudo-50. This is an example of how approximately \$20,000 per month of equipment rental was saved, and the user had effectively the same environment as the hands-on machine. Without Core Fencing through Fixed Initiators the idea of a Pseudo-50 could not have been accomplished.

Figure III-6 describes the On-line/RJE Processing System with its
Fixed Region/Fenced Core. There is purposeful fragmentation; some
storage is not fenced (i.e., between DRIVER and VOS). These unfenced
regions are reserved for Operation Aids and the Batch Reader and Writers.
Batch User jobs are not able to be initiated in these fragments because
they are smaller in size than the minimum region request for a user task.

# ONLINE/RJE SYSTEM

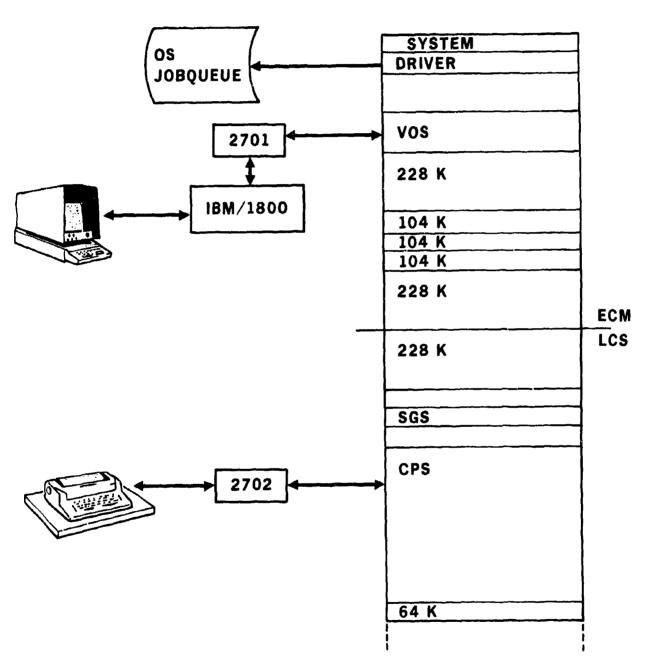


Fig. III-6--On-Line/RJE System

# IV. IMPLEMENTATION OF THE FIXED INITIATOR

The facility for managing on-line storage in a multiprogramming environment had the requirement of easy implementation. This is expanded below in the Externals; the OS modifications necessary for implementation are expanded in the Internals.

### **EXTERNALS**

The implementation of the Fixed Initiator modification is relatively straightforward. The Procedure names for the Initiator to be Fixed must start with a common alpha; we chose F for fixed. The region parameter on the execute statement for these initiators specify the fixed region required by the initiator. The set-up for the normal memory configuration takes about 20 minutes for a Warm Start. Fig. IV-1 illustrates the sequence of commands currently required to configure the system. These commands are executed via a reader procedure which points to the command data set as its input stream.

# INTERNALS

The modifications for Fixed Initiators have changed since Release 17. The Initiator modules have been rewritten and Fixed Initiators now require modifications to four modules in LINKLIB. This represents less than 400 bytes of nonresident code in these four modules.

In what follows, attention is called to IBM's practice of identical naming of load modules and control sections (CSECTs). Beware of confusing the two. Microfiche names appear on the accompanying charts, as do load module names. Note that CSECT names are not represented on Figs. IV-2 or IV-3 (pp. 21-22).

I. Standard Initiation - MVT

The initiation task in an MVT environment has several steadystate conditions. Currently, at Rand, the conditions possible are:

a. Waiting for work—in this case the initiation procedure is represented by one load module in the link pack area. None of available core storage is assigned to the initiation task.

# FIGURE IV-1

# STANDARD WARMSTART

COREMAP IMAGE		18 I	PL" READER CO	MANDS*
MASTER SCHEDULER	80A	н	Q	10
IPL (DRIVER)	22A	D	JOBNAMES, T	20
COREMAP	16A	S	COT EMAP	30
LOVE	16A	S	LOVE	40
FVOS	122A	S	FVOS	50
FNIH	228A	÷	FNIH	60
FHG104	104A	S	FHG104	70
F2HG104	104A	S	F2HG104	80
FGH104	104A	S	FGH104	90
FJ228	228A	S	FJ228	110
Ampex LCS/Boundar	у	S	WTRE	120
WTRE	20L	S	FF228	130
FF228	228L	S	WTRB	140
WTRB	20L	S	FSG\$	150
FSGS	52L	S	WTRD	160
WTRD	20L	S	FCPS	170
FCPS	596L	S	TWRITER	185
TWRITER	24L	S	FM64	190
FM64	64L	S	ONLINE	200
LCS Boundary		S	NORMAL	230
**FREE CORE**	342H	\$	SLOPPY	240
SQS & NUCLEUS	170H	8	SLOW	250
NORMAL	WAITING	S	SPEEDY	260
SLOPPY	WAITING	D	A	270
SLOW	WAITING			
SPEEDY	WAITING			

<sup>\*</sup>This sequence of commands is activated by the operator issued command:

S IPL

- b. Job/step initiation processing—in this case the initiator is represented by several load modules. Some of these reside in, and are executed from, the link pack area. The others must be furnished with a region of available core storage. This allocation of core is carried out dynamically, under standard region management conventions. That is, the region is freed when the initiator modules relinquish control (e.g., to the task being initiated).
- c. Limbo—a name for the situation in which a user job step has been attached by the initiator. In this case the initiator is represented by a load module in the link pack area which will receive control when the job step terminates. The initiator proper has no dynamic storage assigned it at this time; but, the attached job step is running in a region obtained for it by the initiator prior to the attach.
- d. Job/step termination processing—this condition is similar to (b), above. When termination processing is complete the dynamically allocated core assigned to initiator load modules is released and the situation reverts to condition (a) or (b), above.

### II. Fixed Initiation - MVT

An IBM Installation Newsletter, issued while Rand was on Release 17 of MVT, outlined what seemed a relatively easy way to obtain for MVT some of the benefits of the fixed partition system of MFT. Specifically, the modification involved changes to the steady-state conditions described above. Instead of releasing the region assigned to the initiator load modules when the initiator is waiting for work, or has attached a user job step, the region is kept fixed in core. Setting the region size requested in the initiator procedures to appropriate values enables the system to more efficiently manage our complex mixture of permanently resident on-line systems and transient batch job processing.

# III. Implementation of Fixed Initiation

- a. For Release 17 of MVT--Implementation involved changes to only two control sections within one load module, IEFSD061. The single further requirement is that the procedure names for the fixed initiators begin with the letter F (e.g., FGH104, FF228). Changes to control sections are described as follows:
  - CSECT IEFSD061: Code was inserted to test for a fixed initiator. If yes, and the initiator must wait for work, the wait is performed in-line instead of transferring control to load module IEFSD105 which normally frees the initiator's region, and then issues the wait from the link pack area.

2. CSECT IEFSD062: Code was inserted to test for a fixed initiator. If yes, and the job step being processed requires enqueuing on data sets, enqueuing is performed in-line. If yes, and no enqueuing is required, the in-line enqueue is bypassed. In either case, control then passes directly to the allocation interface module IEFSD062 instead of transferring control to module IEFSD102 which normally performs a region swap, in addition to checking for the need to enqueue on data sets.

With the exception of the above changes for initiators whose names begin with F, job step initiation proceeds in the standard manner. Figure III-2 (for Release 17) summarizes where the changes are located with respect to the entire procedure.

b. For Release 19 of MVT--implementation was complicated by several rather basic changes to the job/step initiating procedure. In Release 19 some parts of the system task control routine were merged into the initiator. A more detailed explanation of these changes may be found in the MVT JOB MANAGEMENT PLM (GY28-6660). These modifications required a reworking of the system changes which would allow fixed initiation. The following text identifies, by CSECT within load module, the changes necessary to allow fixed initiation with Release 19.

### 1. Load Module IEFSD061

- o CSECT IEFSD062—this module retained the changes necessary under Release 17. Code was added to implement a "first time through" flag. This procedure allows a starting fixed initiator to obtain its core through a standard region swap in module IEFSD102. After this "first time through" the flag allows a fixed initiator no further access to module IEFSD102.
- o CSECT IEFSD061--this module retained the changes necessary under Release 17. Code was added to remotely reset the flag in CSECT IEFSD062 whenever load module IEFSD061 was loaded via an XCTL from modules IEFSD060 or IEFSD062.
- o CSECT IEFSD104--code was added to remotely reset the flag in CSECT IEFSD062 whenever load module IEFSD061 was loaded via an XCTL from module IEFSD263.
- o CSECT IEFW42SD--code was added to remotely reset the flag in CSECT IEFSD062 whenever load module IEFSD061 was loaded via an XCTL to entry points IEFW42SD or IEEV4221 within the block labeled "TERMINATION" (see Fig. IV-3).

o CSECT IEFSD065—code was added to remotely reset the flag in CSECT IEFSD062 whenever load module IEFSD061 was loaded via an XCTL from module IEFSD062.

# 2. Load Module IEFSDC62

o CSECT IEFSD062—code was added to test for a fixed initiator. (As before, the fixed initiator's jobname must begin with F.) If yes, a branch is enabled which causes the region of core containing the Getpart Work Table (GWT) to be released. The absence of GWT is used in subsequent code as an indication that a region swap at attach-time is not degired.

### 3. Load Module IEFSD263

o CSECT IEFSD263--code was added to test for a fixed initiator. If yes, code is bypassed which normally swape regions just prior to job step attachment. Another fixed initiator test later in this CSECT prevents a region swap upon return to this CSECT when the attached job step gives up control.

Figure IV-3 (for Release 19) summarizes the above modifications, and locates them within the initiator control flow.

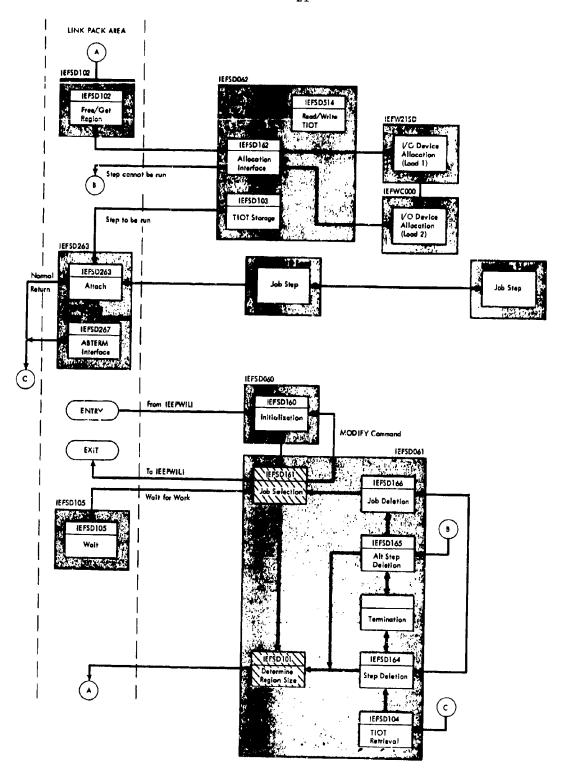


Fig. IV-2--Release 17

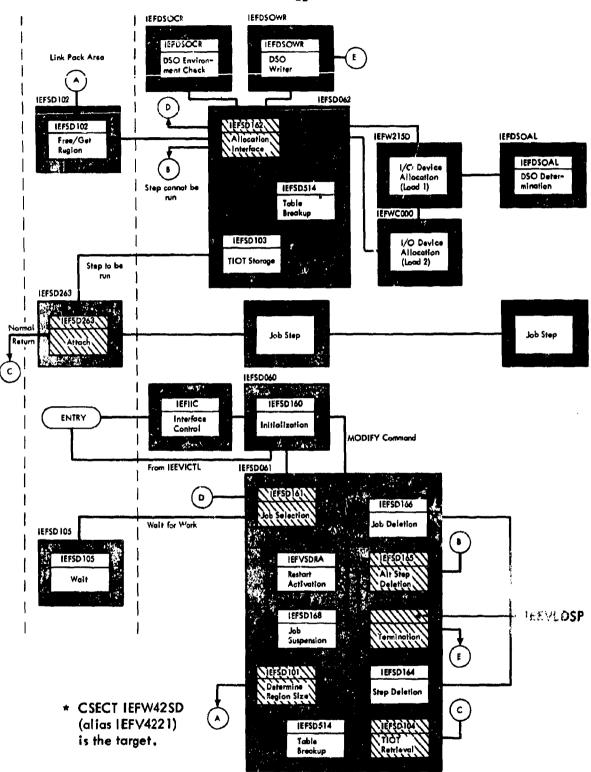


Fig. IV-3--Release 19

# V. CONCLUSION

The Fixed Initiator facility is a stable and reliable modification to the MVT system at Rand, which has accomplished our objectives and exceeded our expectations. Fixed Initiators can reserve storage for on-line systems, reserve storage for guaranteed access applications, and protect the batch processing from accidental execution in slower-speed storage. As a facility for memory management it has reduced the problems associated with controlling three access speeds of memory.

# APPENDIX

The following listings reflect the control sections which have been modified in order to implement fixed initiation on OS/MVT Release 19.3. The patches are enclosed by rectangles.

```
TITLE 'IEFSD101-MS/1 PARTITION REPLACE INTERFACE'
                                                              00020000
                                                              00040000
                                                         M4176 00042019
*2833 013800
                                                         20768 00045018
#6092
                                                         1500 00050014
*015361-015396,015700-016960,022200
                                                          1272 00055019
                                                              00060000
                                                            * 00080000
* 00120000
        IEFSD101-MS/1 PARTITION REPLACE INTERFACE
                                                            * 00140000
                                                            * 00160000
· * 00200000
* STATUS - CHANGE LEVEL 000
                                                            * 00220000
                                                            * 00240000
* FUNTION
         TO DETERMIN THE PARTITION SIZES NEEDED FOR ALLOCATION
                                                         1272 00250019
         FOR THE JOB STEP AND FOR TERRMINATION.
                                                          1272 00260019
                                                             00280000
* ENTRY POINT: IEFSD062 FROM IEFSD161 AND IEFSD164 AND IFFSD166
                                                            * 00300000
                                                            * 00320000
  INPUT: REGISTER ONE CONTAINS THE LCT ADDRESS
                                                            * 00340000
                                                            * 00360000
* OUTPUT: LCTPARM3 IN LCT CONTAINS SUBPOOL NO. AND PARTITION SIZE
                                                            * 00380000
                                                            * 00400000
* EXTERNAL REFERENCES - ABSOLUTE LOCATION 16 IS USED TO PICK UP THE
                                                            * 00420000
   ADDRESS OF THE CVT.
                                                            * 00440000
                                                              00460000
* EXIT: IEFSD102 - PARTITION REPLACE MODULE
                                                            * 00480000
                                                            * 00500000
* TABLES/WORKAREAS - LCT, SCT, MASTER SCHEDULER RESIDENT CORE AREA
                                                            * 00520000
                                                              00540000
* ATTRIBUTES - REENTRANT
                                                            * 00560000
                                                            * 00580000
******************
                                                              00020000
       USING *,R12
                                                              00640000
       USING IEFLOT, R10
                                                              00660000
       USING IEFSCT, R9
                                                              00680000
       EJECT
                                                              00700000
************************************
                                                            * 00740000
* THE FOLLOWING SECTION OF CODE SERVES ONLY TO IDENTIFY THIS MODULE
                                                            * 00760000
 IN A MEMORY DUMP
                                                            * 00780000
                                                            * 00800000
            FIRST
       В
                                                              00820000
       DC
            X'CCCC'
                                                            * 00840000
            C'IEFSD101'
                                                              00860000
            X'06081966'
       DC
                                                            * 00880000
       DC
             X'CCCC'
                                                            * 00900000
FIRST
       DS
            ΩН
                                                            * 00920000
                                                            * 00940000
*************************
       EJECT
                                                              00980000
       LR
            R10.R1
                                                              01000000
                                 LCT ADDRESS
       LR
            R4,R13
                                                          SMF1 01002018
       GETMAIN R, LV=72
                                                          SMF1 01004018
```

```
SMF1 01004018
         1 8
               R13,R1
                                                                      M3849 01006219
         USING CVTDSFCT.R1
                                     CVT ADDRESSABILITY
                                     ADDRESS DE CVT PTR
                                                                      MARKS DIDDERIG
               R1.CVTPTR
                                     GET TOH PTRS
                                                                      M3849 01006619
               RI,CVTTCHP
                                                                      M3849 01006819
         DROP
               R 1
                                                                      M3849 01007019
               R1.04(R1)
                                     GET DUR TOH FOR SME & ALLOC
         SI
               RI, LCTTCBAD
                                     PUT OUR TOB ADDR IN LCT
                                                                      M3849 01007219
                                                                        SMF1 01008018
         LR
               R1, R10
               R15, VCONSME
                                         GO TO SME INIT EXIT
                                                                        SMF1 01010018
                                         PASS LCT IN RI
                                                                        SMF1 01012018
         HALR
               R14, R15
         FREEMAIN R.IV=72.4=(R13)
                                                                        SMF1 01014018
                                                                        SMF1 01016018
         LR
               R13,R4
               R2,OMCAP
                                         LOAD PTR TO TRACK STACK INFO
                                                                             01020000
                                         LOAD PTR TO STACK
                                                                             01040000
               R2+0(R2)
         l.
         I.A
               R2,0(R2)
                                         GET RID DEUPPER BYTE
                                                                             01060000
                                         IF ADDR IS ZERO. NO STACK- SO
                                                                             01080000
         LTR
               R2.R2
                                                                             01100000
         HC
               8.50101005
                                         BRANCH AROUND
                                         AODR IS NOT ZERO - SAVE REG
POINT TO SAVE AREA IN STACK
                                                                             01120000
         ŁR
               R5.R13
                                                                             01140000
         LR
               R13,R2
                                         LOAD PTR TO OMPA
                                                                             01160000
               R1+DMGR1
         LA
                                         CLEAR OF CODE FOR PURGE RIN
                                                                             01180000
                OMPOP(1),OMPOP
         XC
                                          NOT TO CONFUSE IT WITH DELETE
                                                                             01200000
Ķ.
               R15. IFFSDSTP
                                         ADDR OF STACK PURGE PGM
                                                                             01220000
         HALR
               R14,R15
                                         GO TO PURGE AND FREE THE STACK
                                                                             01240000
                                         SAVE THE RETURN CODE
                                                                             01260000
         LR
               R7,R15
                                         LOAD PTR OF RETURNED SAVE AREA
                                                                             01280000
         LR
               R1.R13
                                          AND FREE IT
                                                                             01300000
         FREEMAIN R.LV=72.A=(1)
                                          RESTORE RECISTER
                                                                             01320000
               R13.R5
         1 R
                                          TEST RETURN CODE -- IF IT O.
                                                                             01340000
         LTR
                R7.R7
                                          RETURN WAS NORMAL . BRANCH
                                                                             01360000
                8,50101005
         HC
                                          I/O ERROR IN TRACK
                                                                       20768 01370018
         LΔ
                R1+X*080*
                                                                       20768 01380018
         SLA
               R1,12
                                          STACKING
                                                                       20768 01390018
         ABEND (R1) DUMP
                                         OBO ABEND
SD101005 EQU
                                                                             01400000
                LCTINTSW(D1), LCTINTSW ZFRO INTERNAL SWITCHES
                                                                        1272 01410019
         ХC
                                                                             01420000
                                          GFT SCT ADDRESS
                R9, LCTSCTAD
         I.
                R4,16
                                    LOAD CVT ADDR
                                                                             01460000
                                                                             01480000
         USING CVTDSECT,R4
                                                                             01500000
                R5.CVTMSER
                                    LOAD MASTER RES CORE ADDR
                                                                             01520000
         USING BASF . R5
                                     LOAD MINIMUM PARTITION SIZE
                                                                             01520717
                R7.BAMINPAR
         1 H
                                                                             01521417
         DRIDE
                84
                R4+LCTJCTAD
                                     LOAD JCT ADDRESS
                                                                             01522117
                                                                             01522817
         USING JCT.R4
                                     HAS ABEND OCCURED WHICH MIGHT
                JCTJSTAT.JCTAREND
                                                                             01523517
                                       ALLOW A FOLLOWING STEP TO
                                                                             01524217
                                                                             01524917
                                       EXECUTE
                SD101006
                                     NO. GO TEST JOB FAIL AND JOB
                                                                             01525617
         BZ
                                       FLUSH BITS
                                                                             01526317
         TM
                SCTABOND.SCTEVEN+SCTDNLY
                                                                             01527017
                                     YES. IS THIS STEP TO RUN AFTER
                                                                             01527717
                                                                             01528417
                                       THE AREND
                                     NO. GO SET UP FOR MINPART
                                                                             01529117
         87
                SD101007
                                      WERE EIGHT CONDITIONS PRESENT
                                                                             01529817
         CL I
                SCTABCND+2,0
                                       FOR THIS STEP
                                                                             01530517
                                      YES, NOT EVEN/ONLY, GO SET UP
                                                                             01531217
         BNE
                SD101007
                                       TO GET MINPART
                                                                             01531917
```

```
THIS STEP WILL BE EXECUTED- GO
                                                                           01532617
               SD101008
                                                                           01533317
                                     GET REQUESTED REGION
                                                                           01534017
SD101006 EQU
               JCTJSTAT, X1441
                                    IS JOH FAIL OR FLOSH BIT ON
                                                                      CR17 01534717
         TM
                                    NO. GO GET REQUESTED REGION
                                                                           01535417
         HZ
               SD101008
                                                                      1272 01536419
SD101007 0I
               LCTINTSW.LCTMINRG
                                    JOB FAIL INDICATE MINPAR
               SCIMSADR(D8) . SCIMSADR ZERO ADDRESSES
                                                                      1272 01537419
         ХC
                                                                           01540317
SD101008 FQU
  THIS ROUTINE BUILDS THE GETPART WORK TABLE. THIS TABLE IS TO BE LS17 01543017
   USED AS A PARAMETER LIST FOR LIST FORM OF GETMAIN TO OBTAIN A
                                                                      LS17 01546017
   REGION
                                                                      LS17 01549017
               RO. GPMINPAR+4-GETPTWT LOAD LENGTH OF GNT
                                                                      LS17 01552017
         ΙΔ
                                    GET CORE FROM SUPERVISOR CORE
                                                                      LS17 01555017
         LA
               R8,TCORE
                                                                      LS17 01558017
         SLL
               R8.24
                                                                      LS17 01561017
                                    PLACE SUBPOOL + LENGTH IN RO
         OR
               RO,RR
         GETMAIN R. LV=(0)
                                    GET CORE FOR GETPART WK THLE
                                                                      LS17 01564017
                                                                      LS17 01567017
         I R
               R8.R1
         USING GETPTWT+RB
                                                                      LS17 01570017
               GPADDHO(8).SCTMSADR MOVE HIERARCHY ADDRESSES INTO
                                                                      CR17 01573017
         MVC
                                         WORK TABLE
                                                                      CR17 01576017
               R7,M10
         SLL
                                    MULTIPLY BY 1024
                                                                      1272 01577019
                                                                      1272 01578019
         MVI
               GPCODE, UNCONDOM
                                    INDICATE SUBPOOL 247
                                                                      1272 01579019
         MVI
               GPSUBP, POOL247
                                                                      1272 01580019
         SI
               R7.GPMINFAR
                                    SET UP FOR REGISTER FORM
         MVI
               GPMINPAR, POOL 247
                                    OF GETPART IF ERROR
                                                                      1272 01581019
               GPADDHOR(D4), GPADDHO SAVE ORIGINAL ADDRESS
                                                                      1272 01582019
         MVC
         LH
               R11,SCTMSSZE
                                    HO SIZE FROM SCT
                                                                      1272 01583019
                                    MULTIPLY BY 1024
                                                                      1272 01584019
         SLL
               R11,M10
               R11,GPSIZEHO
                                    SIZE INTO GWT
                                                                      1272 01585019
         ST
               R3,SCTLCSSZ
                                    HI SIZE FROM SCT
                                                                      1272 01586019
         LH
               R3,M10
         SLL
                                    MULTIPLY BY 1024
                                                                      1272 01587019
               R3,GPSIZEH1
                                    SIZE INTO GWT
                                                                      1272 01588019
         ST
               GPSIZEH1, ENDLIST
                                    INDICATE END OF LIST
         MVI
                                                                      1272 01589019
                                    TEST FOR HIER ZERO
                                                                      1272 01590019
         TM
               LCTOPSW2.LCTINTHO
         80
               SD10110
                                    BRANCH IF HIER ZERO
                                                                      1272 01591019
               LCTOPSW2, LCTINTH1
                                    TEST FOR HIER ONE
                                                                      1272 01592019
         TM
                                    BRANCH NOT HIER ONE
                                                                      1272 01593019
         ΒZ
               SD10109
                                                                      1272 01594019
               LCTINTSW, LCTIHIER
                                    INIT RUN IN HIER ONE
         n t
                                   ADD REGION REQUESTS
                                                                      1272 01595019
         ΔR
               R3,R11
               R3,GPSIZEH1
                                   STORE IN HI SIZE
                                                                      1272 01596019
         ST
                                   INDICATE END OF LIST
         MVI
               GPSIZEH1, ENDLIST
                                                                      1272 01597019
         ХC
               GPSIZEHO(D4), GPSIZEHO ZERO HO SIZE
                                                                      1272 01598019
         В
               SD10113
                                                                      1272 01599019
SD10109
         LTR
               R11,R11
                                    TEST FOR HO SIZE
                                                                      1272 01600019
                                                                      1272 01601019
         BNE
               SD101105
         LTR
               R3,R3
                                    TEST FOR HIER ONE
                                                                      1272 01602019
         AE
                                   BRANCH DEFAULT TO ZERO
                                                                      1272 01603019
               SD101105
         OI
               LCTINTSW, LCTIHIER
                                    INIT RUN IN HIER ONE
                                                                      1272 01604019
                                                                      1272 01605019
         В
               5010113
                                   ADD REGION REQUESTS
SD10110
         AR
               R11,R3
                                                                      1272 01606019
                                                                      1272 01607019
               R11,GPSIZEHO
                                   STORE IN HO SIZE
         ST
               GPSIZEH1(D4),GPSIZEH1
                                         ZERO H1 SIZE
                                                                      1272 01608019
         XC
                                   ZERO HI SIZE IN REGISTER
                                                                      1272 01609019
         SR
               R3, R3
SD101105 LA
               R14, GPADI HO
                                   SET UP PTR TO ADDRESS
                                                                      1272 01610019
               R14.GPADULT
         ST
                                   LIST OF HIERARCHIES
                                                                      1272 01611019
               R14, GPS IZEHO
                                   SET UP PTR TO REGION
                                                                      1272 01612019
         LA
         ST
               R14,GPSIZEA
                                   SIZE LIST OF HIERARCHIES
                                                                      1272 01613019
```

```
TEST FOR HIER ONE
         LTR
               R3,R3
                                                                       1272 01614019
                                     BRANCH IF THERE IS HI
         RNE
                S010114
                                                                       1272 01615019
                                                                       1272 01616019
         MVI
                GPSIZEHO, ENDLIST
                                    SET HO SIZE AS END OF LIST
         A
                SE10114
                                                                       1272 01617019
                                    SET UP PTR TO ADDRESS LIST
SD10113
                                                                       1272 01618019
         LA
               R14, GPADDH1
               R14,GPADDLT
                                    FOR HIERARCHY ONE
                                                                       1272 01619019
         ST
               R14,GPSIZEH1
         LA
                                    SET UP PTR TO REGION SIZE
                                                                       1272 01620019
         ST
               R14,GPSIZEA
                                    STORE PTR
                                                                       1272 01621019
         CLR
               R3,R7
                                    COMPARE REQUEST WITH MINPAR
                                                                       1272 65 522019
                                    BRANCH REQUEST GREATER
         HNL
                5010124
                                                                       1272 01623019
         MVC
                GPSIZEH1+D1(D3),GPMINPAR+D1 MOVE IN MINPAR SIZE
                                                                       1272 01624019
                                     REQUEST SIZE IN R6
         ŁR
               R6,R3
                                                                       1272 01625019
                S010115
                                                                       1272 01626019
                                    COMPARE REQUEST WITH MINPAR
SD10114
         CLR
                R11,87
                                                                       1272 01627019
               SD10124 BRANCH REQUEST GREATER
GPS1ZEH0+D1(D3),GPM1NPAR+D1 MOVE IN MINPAR SIZE
         BNL
                                                                       1272 01628019
         MVC
                                                                       1272 01629019
                                    REQUEST IN R6
         LR
                R6,R11
                                                                       1272 01630019
                                     TEST FOR JOB FAIL
SD10115
         TM
               LCTINTSW, LCTMINRG
                                                                       1272 01631019
         ΒZ
                S010116
                                     BRANCH JOB NOT FAILEC
                                                                       1272 01632019
               LCTINTSW, LCTIHIER
SD101155 TM
                                   TEST FOR HIERARCHY
                                                                       1272 01633019
         ΒZ
                $0101165
                                     BRANCH HIERARCHY ZERO
                                                                       1272 01634019
         NC
                GPS17EHO(D4),GPS1ZEHO ZERO HIERARCHY ZERO SIZE
                                                                       1272 01635019
         MVC
                GPSIZEHI+D1(D3).GPMINPAR+D1 MOVE MINPAR SIZE
                                                                       1272 01636019
                                                                       1272 01637019
                5010125
S0101165 XC
                GPSIZEH1(D4),GPSIZEH1 ZERO H1 SIZE
                                                                       1272 01638019
                GPSIZEHO, ENDLIST INDICATE END OF LIST
                                                                       10 72 01639019
         MVI
                GPSIZEHO+D1(D3),GPMINPAR+D1 MOVE IN MINPAR SIZE
         MVC
                                                                       1272 01640019
                SD10125
                                                                       1272 01641019
SD10116
         nc
                BAMIPAR2(D2), BAMIPAR2 IS TERM IN LPA
                                                                       1272 01642019
                                     BRANCH NOT IN LPA
         ВE
                SD10120
                                                                       1272 01643019
         TM
                LCTINTSW, LCTIHIER
                                   INIT IN HIERARCHY ONE
                                                                       1272 01644019
                                    BRANCH HIERARCHY ONE
                                                                       1272 01645019
                50101166
                GPADDHO+D1(D3)+GPADDHO+D1 SPECIFIC REQUEST
         OC.
                                                                       1272 01646019
                                    BRANCH NOT SPECIFIC
         BE
                5010117
                                                                       1272 01647019
         SR
                                    R7=(MINPAR-S)
                                                                       1272 01648019
                R7, R11
                R2,GPADDHO
                                    GET REQUESTED ADDRESS
                                                                       1272 01649019
                                    R2=A-(MINPAR-S)
                                                                       1272 01650019
         SR
                R2, R7
         ST
               R2,GPADDHO
                                    NEW ADDRESS IN PARM
                                                                       1272 01651019
                                                                       1272 01652019
                S010117
                GPADDH1+D1(D3) +GPADDH1+D1 SPECIFIC REQUEST
S0101166 0C
                                                                       1272 01653019
                                    BRANCH NOT SPECIFIC
                SD10117
                                                                       1272 01654019
         BE
                                    R7=(MINPAR-S)
         SR
                R7,R3
                                                                       1272 01655019
                R2,GPADDH1
                                    GET REQUESTED ADDRESS
                                                                       1272 01656019
         L
                                    CLEAR HIGH ORDER BYTE
                R2,0(R2)
                                                                       1272 01657019
         I. A
         $R
                R2,R7
                                    R2=(A-(MINPAR-S)
                                                                       1272 01658019
                                    NEW ADDRESS IN PARM
                                                                       1272 01659019
         ST
                R2,GPADDH1
                GPADDH1, HEXO1
                                    INDICATE HIERARCHY ONE
         MVI
                                                                       1272 01660019
                                                                       1272 01660519
1272 01661019
SD10117
         LΗ
                R7,BAMIPAR2
                                    LOAD MIN-MIN SIZE
         SLL
                R7,M10
                                    MULTIPLY BY 1024
                                    IS REQUEST GREATER THEN MIN-MIN
                                                                       1272 01661519
         CLR
                R6.R7
         BNH
                SD10118
                                     BRANCH MIN-MINPAR GREATER
                                                                       1272 01662019
         ST
                R6,GPSIZEPP
                                     USE REQUEST FOR P/P
                                                                       1272 01663019
                SD10126
                                                                       1272 01664019
SD10118
         EQU
                                                                       1272 01665019
                                     SMALL REGION FLAG
         TM
                LCTOPSW1, LCTMINPF
                                                                       1272 01667019
         80
                S010119
                                     BRANCH NO SMALL REGION
                                                                       1272 01668019
                                     USE MIN-MINPAR FOR P/P
                R7, GPSIZEPP
                                                                       1272 01669019
         ST
```

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1272 01670019
                SD10126
                R6,GPSIZEPP
                                      USE REQUEST FOR PZP
$010119
         ST
                                                                         1272 01671019
                R7,GPSIZET
                                     USE MIN-MINPAR FOR TERM
                                                                         1272 01672019
                SD10127
                                                                         1272 01673019
SD10120
         TM
                LCTOPSW1, LCTMINPF
                                      SMALL PARTITION OPTION
                                                                         1272 01674019
         ΑZ
                $010125
                                     BRANCH NO
                                                                         1272 01675019
                R6,GPSIZEPP
                                     USE REQUEST FOR P/P
         SI
                                                                        1272 01676019
         ST
                R7, GPSIZET
                                     USE MIN/MINPAR FOR TERM
                                                                         1272 01677019
                SD10127
                                                                        1272 01678019
                                    TEST FOR JOB FAIL
5010124
         TM
                LCTINTSW, LCTMINRG
                                                                         1272 01679019
                                    BRANCH IF JOB FAILED
                SD101155
                                                                        1272 01680019
         BD
                GPSIZEPP(D4),GPSIZEPP
5010125
         ХÇ
                                                                         1272 01681019
SD10126
         ХC
                GPSIZET(D5), GPSIZET ZERO TERMINATE SIZE
                                                                         1272 01682019
                                                                         1272 01683019
SD10127
         EQU
SD101C4
                R8,0(R8)
                                          ZERO HIGH ORDER BYTE
                                                                        LS17 01699017
                                          GETMAIN PARAM FOR IEFSD102
         ST
                R8, LCTPARM3
                                                                        LS17 01702017
                P1, LCTODRTY
                                    ADDRESS OF CSCH
                                                                       M4176 01702619
         USING IEFCSCB.R1
                                                                       M4176 01703219
                                    IS THIS A SYSTEM TASK
                                                                       M4176 01703819
         TM
                CHSWT, CHSYS
                                    BRANCH SYSTEM TASK - SKIP CHAP
         BO
                SKIPCHAP
                                                                       M4176 01704419
         DROP
                R 1
                                                                       M4176 01705019
         SR
                R1,R1
                                     CLEAR REGISTER
                                                                         1241 01706018
         LA
                RO,15
                                     PUT 15 IN REG
                                                                         1241 01710018
         10
                R1.LCTQDRTY
                                     LOAD JOB SCHEDULING PRIORITY
                                                                         1241 01714018
         SR
                RO.RI
                                     GET 15-PRTY
                                                                         1241 01718018
         LNR
                RO,RO
                                     NEGATE REGISTER
                                                                         1241 01722018
                                     CLEAR REGISTER
         SR
                R1,R1
                                                                         1241 01726018
         CHAP
                (0),(1)
                                      CHAP DOWN BY 15-PRTY
                                                                         1241 01730018
SKIPCHAP EQU
                                                                       M4176 01735019
                                           RESTORE LCT ADDRESS
                R1,R10
                                                                              01740000
                15,16
                               MOTHER CVT
                                                                                  0120
                15,0(0,15)
                               DOUBLEWORD
                                                                                  0121
                               THE TCB
                15,4(0,15)
                                                                                  0122
                                                                                  0123
                15,12(0,15)
         CLI
                0(15),C*F*
                               FIXED PARTITION?
                                                                                  0124
         BNE
                NORMAL
                               NO - PROCEED NORMALLY
                                                                                  0125
                                    CHECK FIRST TIME THRU FLAC.
                FTTF,X'FF'
         CLI
                                     ALLOW FIXED INITIATION.
         ве
                HITIT
                FTTF,X'FF'
                                    SET FITE TO ALLOW FI NEXT TIME.
LET IT GO THIS TIME.
         MVI
                NORMAL
         В
FTTF
         DC
                X1001
                                    FIRST TIME THRU FLAG.
                R1, LCTPARM1
                                    GET DS END TABLE.
HITIT
         LTR
                               IS IT ZERO?
                R1,R1
                                                                                  0127
                                                                                  0128
         ΒZ
                LACTATE
                               YEAH
                               END ON THE
         LA
                R1,8(0,R1)
                                                                                  0129
         SVC
                               JOB'S DATASETS
                                                                                  0130
                               FREE UP DS END
                RO.LCTPARM2
         L
                                                                                  0131
                               TABLE CORE
                R1, LCTPARM1
                                                                                  0132
         SVC
                10
                                                                                  0133
                               RESTORE LCT POINTER
LACTATE
                R1,R10
         1 R
                                                                                  0134
         XCTL
                EP=IEFSD062
                               GO TO MEMBER IEFSD062
                                                                                  0135
NORMAL
         DS
                                                                                  0136
         XCTL
                EP=IFFSD102,MF=(E,(1))
                                                                              01760000
IEFSOSTP DC
                V(IEFSD112)
                                   ADDR OF TRACK STACK PURGE PGM
                                                                              01780000
VCONSME
                V(IEFSMFIE)
         DC
                                                                        SMF1 01790018
RΟ
         EQU
                0
                                                                              01800000
R1
         EQU
                1
                                                                              01820000
```

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82
         £ QH
                                                                               01840 100
R3
         FOU
                ٦
                                                                               01860000
R4
         EOU
                                                                               01880000
R5
         EQU
                5
                                                                               01900000
Кb
         EQU
                þ
                                                                               01920000
R7
         EQU
                7
                                                                               01940000
38
         FOU
                В
                                                                               01960000
к9
         EQU
                                                                               01980000
R10
         EQU
                10
                                                                               02000000
R11
         FOU
                                                                               02020000
R12
         EQU
                12
                                                                               02040000
R13
         EQU
                13
                                                                               02060000
R14
         EQU
                14
                                                                               02080000
R15
         FOU
                15
                                                                               02100000
TOORE
         EQU
                                                                          L$17 02110017
                253
CVTDSECT DSECT
                                                                               02120000
UNCONDOM EQU
                X1801
                                                                          1272 02121019
M1 O
         FOU
                10
                                                                          1272 02122019
ENDLIST
         EQU
                X1801
                                                                          1272 02123019
D1
         EQU
                1
                                                                          1272 02124019
0.2
         EQU
                2
                                                                          1272 02125019
กร
         FOU
                3
                                                                          1272 02126019
04
          EQU
                4
                                                                          1272 02127019
DΑ
         FOU
                R
                                                                          1272 02128019
POOL 247
         EQU
                247
                                                                          1272 02129019
HEXO1
         FOU
                X1011
                                                                          1272 02130019
         CVT
                                                                               02140000
  IEEBASEA
IEFLOT
         DSECT
                                                                               02180000
                                                                               02200000
 IEFALLCT
         DS
                3.5
                                                                          1272 02204019
LCTINTSW DS
                                      INITIATOR INTERNAL SWITCHES
                OC
                                                                          1272 02208019
LCTIHIER EQU
                128
                                                                          1272 02212019
LCTSTOP EQU
                                      INITIATOR INTERNAL STOP
                                                                          1272 02216019
LCTABEND EQU
                2
                                      P/P ABBENDED
                                                                          1272 02220019
LCTMINEG EQU
                                                                          1272 02224019
                16
LCTSPLP
         DS
                                                                               02228019
         DS
                42F
                                                                          1272 02232019
OMGR 1
                                           MAIN OMGR PARAMETER AREA
                9F
                                                                               02240000
         DS
                                           'ALTERNATE' OMGR PARAMETER AREA
OMGR 2
         0.5
                9F
                                                                               02260000
                                    NEEDED FOR TRACK STACKING AND QUEUE
TRSTKINE DS
                2F
                                                                               02280000
                                    BREAK INFORMATION. 1ST BYTE TO CON-
                                                                               02300000
                                    TAIN NUMBER OF BUFFERS, NEXT 3 BYTES
                                                                               02320000
χĸ
                                    FOR STACK ADDR. NEXT 4 BYTES FOR
                                                                               02340000
                                    QUEUE BREAK INFORMATION PTR IN OMPA TO TRK STACK INFO
                                                                               02360000
                OMGR1+24
OMCAP
         FOU
                                                                               02380000
OMPOP
         EQU
                OMGR1+8
                                    OMGR OP CODE IN OMPA AREA
                                                                               02400000
                                                                          1272 02400219
                6F
         กร
    THESE FIELDS ARE NEEDED FOR L-SHAPE/INIT MERGE
                                                                          1272 02400419
LCTOPSW1 DS
                OC
                                      INITIATOR OPTIONS BYTE 1
                                                                          1272 02400619
LCTPKEYF EQU
                128
                                      DONT GET PROTECT KEY
                                                                          1272 02400819
LCTUWEE
         EQU
                64
                                      DONT PROCESS DEDICATED WORKF
                                                                          1272 02401019
LCTSTMDF EQU
                                      DONT PROCESS STOP/MODIFY
                                                                          1272 02401219
                32
                                                                          1272 02401419
LCTMINPF EQU
                16
                                      GET REGION SIZE SPECIFIED
LCTCANF EQU
                                                                          1272 02401619
                                      ALLOW CANCEL ONLY AT ALLOC
                8
LCTONEJF EQU
                4
                                      PROCESS ONLY ONE JOB
                                                                          1272 02401819
LCTICMOF EQU
                                      DONT PROCESS INITIATOR CMDS
                                                                          1272 02402019
                2
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LCTEXIT	DS	F	ADDRESS INITIATOR EXIT LIST	1272	02402219
LCTOPSW2	D <b>S</b>	00	INITIATOR OPTIONS BYTE 2	1272	02402419
LCTTIMEF	EQU	128	DONT TIME THIS JOR	1272	02402614
LUTURE	EQU	64	DONT ALLOW CHECKPT/RESTART	1272	02402819
LCTDSDF	FQU	32	DONT PROCESS DSO	1272	02403019
LCTINTHO	EQU	16	HO SPECIFIED ON START COMMAND	1272	02403219
LC[INTH]	EQU	8	HI SPECIFIED ON START COMMAND	1272	02403419
LCTCOM	DS	F	COMMUNICATIONS PARM AREA PTR	1272	02403619
	EJECT				02404017
JCT	DSFCT				02408017
	IEFAJO	CTB			02412017
	EJECT				02413019
TEFCSCB	DSECT				02414019
	I EECHA	NIA			02415019
	EJECT	-			02416017
LEFSCT	DSECT				02420000
JEFASCTH					02440000
GETPTWT	DSECT				02441017
GPSIZEA	DS	16	CONTAIN THE ADDRESS OF THE REGION SIZE LI	LS17	02442017
GPADDLT	DS	1F	CONTAIN THE ADDR DE ADDR LIST FOR THE HIE		
GPCODE	DS	XIOI	CONTAIN 80 TO INDICATE UNCOMPITIONAL REGU		
GPSUBP	DS	χιοι	CONTAIN SUBPOOL 247 OR 246		02445017
	DS	HIOL			02446017
GPHIARCO	-	0F	CONTAINS 00		02447017
GPADDHO	DS	1F	CONTAINS ADDRESS(SPECIFIC) .7 FRO(NON-SPEC		
GPHIARC1	DS	0F	CONTAINS OI		02449017
GPADDH1	DS	1 F	CONTAINS ADDRESS(SPECIFIC) .ZERU(NON-SPEC	_	-
GPSIZEHO	-	ÎF	SIZE OF HO		02451017
	OS	ÎF.	SIZE OF H1		02452017
	-	ÎF	REGION SIZE FOR P/P		02452319
GPSIZET	DS	1F	REGION SIZE FOR TERMINATE		02452619
GPADDHOR	DS	1F	ORGINAL ADDRESS		02453017
GPMINPAR		ÎF	247 + MINIMUM REGION SIZE		02454017
OL MINE HIG	END	4.1	Call to Distance of Office Office	J., 1	02460000
	10.7112				1

```
TITLE *TEFSD161 VMS JOB SELECT MODULE*
                                                                     00020000
TEFSD061 CSECT
                                                                      00040000
                                                               A21364 00045019
*037880
                                                                M0429 00050018
                                                                     00051019
  RELEASE 19
                                                                      00052019
* 037700-037970,124053-124062
                                                               A27668 00052519
 033800-034400,059400-061000,089600-091000,107800-108400
                                                                 099 00053019
 124000-127000
                                                                 D99 00054019
                                                                      00055019
                                                                      00056019
                                                                      00057019
                                                                      00058019
                                                                      00059019
00080000
                        JOB SELECT MODULE
                                                                    * 00100000
                                                                   * 00120000
00140000
                                                                     00160000
                                                                      00180000
*STATUS: CHANGE LEVEL 000
                                                                      00200000
* FUNCTION: TO GET THE HIGHEST PRIORITY JOB FROM THE QUEUE, READ THE * 00220000
        APPROPRIATE SCT FOR THE JOB, AND SET UP THE MESSAGE CLASS CR17 00240017
        QUEUE MANAGER PARAMETER AREA.
                                                                 CR17 00260017
                                                                      00280000
            ALSO.
            TO PREPARE A DATA SET END PARAMETER LIST AND
                                                                     00300000
            A DSNAME DEG TABLE
                                                                    * 00320000
               CONDITIONALY INVOKE A DIRECT SYSOUT (DSO)
                                                                 099 00322019
               ROUTINE TO SELECT ELIGIBLE DSD DEVICES TO BE
                                                                 099 00324019
               USED BY THE DEQUEUED JOB.
                                                                 099 00326019
                                         JOB CLASS AND
               SYSOUT CLASS ARE USED TO SELECT ELIGIBLE DSO
                                                                 099 00328019
               DEVICES. DIRECT SYSOUT CONTROL BLOCKS (DSDCB) CONTAIN NECESSARY DATA FOR SELECTION AND
                                                                 099 00330019
                                                                 099 00332019
               MODIFICATION OF THE RESPECTIVE SYSOUT'S SIOT
                                                                 D99 00334019
               AND JECH TO THAT OF THE DSO DEVICE.
                                                                 099 00336019
                                                                      00340000
   ENTRY POINTS - IEFSD161 FROM IEFSD160, IEFSD166, AND IEFSD105
                                                                      00360014
                                                                     00380000
 INPUT: REGISTER ONE CONTAINS THE LCT ADDRESS
                                                                    * 00400000
                                                                     00420000
          REGISTER ONE CONTAINS THE LCT ADDRESS AND THE LCT CONTAINS * 00440000
 DUTPUT:
          THE CURRENT JCT AND SCT CORE ADDRESSES
                                                                   * 00460000
                                                                     00480000
                                                                      00500000
*EXTERNAL ROUTINES: IEFOMDO2 - REQUEST WORK
                                                                      00540000
                   IEFOMUNC - DELETE WORK REQUEST
                                                                     00560000
                   IEGOMRAW - Q MNGR READ/WRITE ROUTINE
                                                                      00580000
                   IEFDSTBL - DATA SET INTEGRITY
                                                                     00600000
                   IEFDSLST - DATA SET INTEGRITY
                                                                      00620000
                                                                     00640000
                                                                    * 00660000
   EXITS - :. JOB TO PROCESS - IEFSD162
                                                                      00670014
           2. STOP INIT - BACK TO MASTER
                                                                      00680014
           3. MODIFY INITIATOR - IEFO60SD
                                                                   * 00686015
           4. WAIT FOR WORK - 1EFSD105
                                                                   * 00692015
           5. DIRECT SYSOUT (DSO) SELECTION - IEFDSOSL
                                                                 099 00694019
```

```
099 00696019
 EXTERNAL REFERENCES: IEFOSSS.IEFOSTBL
                                                                        00700000
                       JCT, SCT, LIFE OF TASK BLOCK, AND JOB CSCB ARE IN MAIN STORAGE AT EXIT
   TABLES/WORK AREAS:
                                                                      * 00720000
                                                                      * 00740000
                       QUEUE MANAGER RESIDENT CORE AREA
                                                                      * 00760015
                       DIRECT SYSOUT CONTROL BLOCKS (DSOCB)
                                                                    099 00770019
                                                                        00780015
*ATTRIBUTES REENTRANT
                                                                      * 00800015
                                                                       * 00820015
                                                                      * 00840000
                                                                        00068000
                                                                        00088000
         EJECT
RO
         EQU
                                                                        00900000
R1
         EQU
                                                                        00920000
F 2
         EQU
               2
                                                                        00940000
R3
                                                                        00960000
         EQU
                                                                        00980000
R4
         EQU
R5
         EQU
               5
                                                                        01000000
                                                                        01020000
R6
         EQU
               6
R7
         EQU
               7
                                                                        01040000
R8
         EQU
               В
                                                                        01060000
                                                                        01080000
RQ
         FQU
R10
         EQU
               10
                                                                        01100000
R11
                                                                        01120000
         EQU
               11
R12
         EQU
               12
                                                                        01140000
R13
         EQU.
                                                                        01160000
               13
R14
         EOU
               14
                                                                        01180000
R15
         EQU
               15
                                                                        01200000
         BALR
              R12.0
                                        SET PROGRAM BASE REGISTER
                                                                        01220000
         USING IEFJCT.R11
                                                                        01240000
         USING IEFLOT, R10
                                                                        01260000
         USING IDPARAMS, R9
                                                                        01280000
         USING RSAR,R13
                                                                        01310014
         USING *,R12
                                                                        01320000
   01340000
                                                                        01360000
   THIS SECTION OF CODE IS FOR PROVIDING A METHOD OF IDENTIFYING
                                                                        01380000
                 THIS MODULE IN A MEMORY DUMP
                                                                       * 01400000
                                                                        01420000
               FIRST
                                                                       * 01440000
         DC
               XICCCCI
                                                                       * 01460000
               C'IEFSD161'
         DC
                                                                        01480000
               X1050319661
         DC
                                                                        01500000
FIRST
                                                                        01520000
                                                                        01540000
*****************
                                                                        01560000
         EJECT
                                                                        01580000
               R10+R1
                                   GET BASE FOR LIFE OF TASK BLOCK
         LR
                                                                        01610015
         LA
               R9, OMGR1
                                   GET BASE FOR QUEUE MANAGER PARAMETER 01640014
                                                                        01670014
                                   AREA (QMPA)
              R13, REGSAVE
                                   GET BASE FOR RSAR DSECTITHE 1ST 18
                                                                        01700014
                                   WORDS OF WHICH SERVE AS A SAVE AREA
                                                                        01730014
                                   FOR THIS PROGRAM)
                                                                        01760014
         TM
               LCTOPSW1, LCTSTMDF
                                   STOP/MODIFY PROCESSING WANTED
                                                                   1272 01760419
         BNO
               ECBTEST
                                   YES, GO CHECK FOR STOP
                                                                   1272 01760819
         TM
               LCTINTSW, LCTSTOP
                                   INTERNAL STOP WANTED
                                                                   1272 01761219
                                   NO. GO PROCESS THE JOB
         BNO
               SD612021
                                                                   1272 01761619
```

	В	SD061037	YES GO PREPARE TO STOP 1272	01762019
ECATEST	EQU	*	IPAL PUR PILERNOL ALUE 17/7	01762419
	L	AR, CCRLIST R1.0(R8)	GET POINTER TO ECH LIST	01763015
	i.	R1+0(R8)	LOAD ADDRESS OF COMMUNICATION ECB	01766015
	TM		IS THE STOP BIT POSTED	01769015
	80	SD61550	YES BRANCH TO STOP	01772015
SD61549	EQU	*		01775015
••••		COMPA - P2	COMM PARM AREA ADDRESSABILITY 1272	
	1	COMPA .R2 R2.LCTCOM	NO. COMM PARM AREA PTR -CPA 1272	01777019
	1.	R3.COMCIBPT		01778019
	DROP	82		01779019
	LA	93 - 07 93 1	CET DID DE HIGH ODDED BYTE	01784015
	LTR	02-02	GET RID OF HIGH ORDER BYTE IS IT ZERO	01787015
	HZ	SD612021	YES. BRANCH AND SCAN REST OF ECBLIST	
			TEST DRANGE AND SCAN REST OF ECOLIST	01796015
*	RAL	R7, SD612270	BRANCH TO UNCHAIN ECBS IN R10 FOR IEFSD160 I272	01798019
*				
	L	R15+[EFSD6OV	ADDRESS OF MODULE TEFSDOOD	01801015
5041556	BR	R15	GO TO TEFSOOGO	01803015
5061550	NI	O(RI) • X'AF'	TURN OFF POST AND STOP BITS END ON GROUP CONTROL BLOCK CHAIN	01805015
	ENΩ		END ON GROUP CONTROL BLOCK CHAIN	01808015
	L .	R7.CVTPTR	LOAD POINTER TO CVT	01811015
		CVTDSECT+R7		01814015
	L		LOAD ADDRESS OF BASE A	01817015
		BASE . R7		01820015
	LΔ	R5.BATRM	LOAD ADD OF GCB POINTER	01823015
	L	R4.BATRM	LOAD GCB POINTER	01826015
	DROP	R7		01829015
SD61551	EQU	*		01832015
	CLC	16(8,R4) +LCTIDENT		01841015
	RE	\$061552	YES. BRANCH AND CONTINUE	01844015
	LA	R5+4(R4)	NO. SAVE ADDRESS OF LAST GCB PLUS 4	
	L	R4,4(R4)	LOAD POINTER TO NEXT GCB	01850015
	B	\$061551	BRANCH AND CHECK THIS GCB	01853015
SD61552	EQU	*		01856015
	SR	R7,R7	ZERO OUT REGISTER	01859015
	10	R7+25(R4)	SET STOP COUNT	01862015
	LTR	R7,R7	IS STOP COUNT ZERO NO. BRANCH AND CONTINUE	01865015
	BNZ	SD61553	NO. BRANCH AND CONTINUE	01868015
	USING	COMPA,R2	COMMUN PARM AREA ADDRESSABLITY 1272	
	L	R2,LCTCOM	ADDRESS OF COMMUN PARM AREA 1272	01868419
	L	R1.COMCIBPT	ADDRESS OF CIB 1272	01868619
	USING	CIBOSECT.R1		01868819
	LTR	R1.R1		01869019
	BZ	SD61549A	NO. GO CHECK FOR MODIFY 1272	01869219
	CLI	CIBVERB, CIBSTOP		01869419
	BNE	SD61549A	NO. GO CHECK FOR MODIFY 1272	01869619
	LA	RO,COMCIBPT	ADDRESS OF CIB PTR 1272	01869819
	DROP	R2	1272	01870019
	В	FREESTOP	GO FREE STOP CIB 1272	01870219
SD61549A	EQU	*	1272	01870419
	DEQ	MF=(E,IEFSD61C)	DEO ON GROUP CONTROL BLOCK CHAIN	01871015
	R	SD61549	GO CHECK FOR MODIFY	01874015
SD61553	EQU	*		01877015
	BCTR	R7.R0	DECREMENT STOP COUNT	01880015
	STC	R7,25(R4)	STORE STOP COUNT	01883015
	LA	RO,28(R4)	ADDRESS OF CIB POINTER IN GCB	01883718
	L	R1,28(R4)	POINTER TO THE CIB	01884418
		•		

```
FREESTOP EQU
                                                                  1272 01884719
                                       FREE THE STOP CIR
                                                                      D1885118
        QEDIT BLOCK=(1), ORIGIN=(0)
                                                                      01886015
                                  LOAD MEMBER COLINT
              P7,24(P4)
        10
              R7.R0
                                                                      01889015
        BCTR
                                  DECREMENT MEMBER COUNT
              R7,R7
                                  IS MEMBER COUNT ZERO
                                                                      01892015
        LTR
                                  NO. BRANCH AND CONTINUE
                                                                      01895015
        BNZ
              SD61554
                                  YES, MOVE POINTER TO NEXT GCB
                                                                      01898015
        MVC
              0(4,R5),4(R4)
                                                                      01901015
                                  INTO LAST GCB
                                  LOAD LENGTH OF GCB
                                                                      01904015
        LH
              RO.0(R4)
        LΑ
                                  LOAD SUBPOOL
                                                                      01907015
              R1,255
                                                                      01910015
                                  MOVE SUBPOOL TO HIGH ORDER BYTE
        SLL
              R1,24
                                  OR IN SUBPODE NUMBER
                                                                       01913015
        nR.
              RO,R1
                                                                      01916015
                                  LOAD ADDRESS DE GCB
        LR
              R1,R4
        FREEMAIN R.LV=(0).A=(1)
                                  FREE GCB
                                                                      01919015
                                  BRANCH AND CONTINUE
                                                                       01922015
              $061555
SD61554
        EQU
                                                                       01925015
                                                                       01928015
                                  STORE MEMBER COUNT
        STC
              R7,24(R4)
                                                                  1272 01929019
        USING COMPART
                                  CPA ADDRESSABILITY
                                  CPA POINTER
                                                                  1272 01930019
              R7, LCTCOM
              R7.COMCIBPT
                                  ADDRESS OF CIB
                                                                  1272 01931019
                                                                  1272 01932019
        DROP
              R 7
                                  GET RID OF HIGH ORDER BYTE
                                                                       01937015
        LA
              R7,0(R7)
                                  IS A MODIFY OUTSTANDING
                                                                       01940015
        LTR
              R7,R7
                                                                       01943015
              SD61555
                                  NO. BRANCH AND CONTINUE
        R.7
              R7,R7
                                  YES, ZÈRO REGISTER
                                                                       01946015
        SR
                                  LOAD MODIFY COUNT
                                                                       01949015
         I C
              R7,26(R4)
        BCTR
                                  DECREMENT MODIFY COUNT
                                                                       01952015
              R7,R0
                                  PUT MODIFY COUNT BACK
                                                                       01955015
        STC
              R7,26(R4)
        EQU
                                                                       01958015
SD61555
                                                                       01961015
              MF=(E, IEFSD61C)
                                  DEO ON GROUP CONTROL BLOCK CHAIN
        DED
                                                                       01964015
              SD061037
SD612021 EQU.
                                                                       01967015
                                  LOAD ADDRESS OF JCT
                                                                  1272 01975019
              R11+LCTJCTAD
        LTR
              R11+R11
                                  IS THERE AN IN-CORE JCT
                                                                  1272 01983019
                                  YES, DONT GET CORE FOR JCT
                                                                  1272 01991019
        BNZ
               JCTIN
         GETMAIN R, LV=176, SP=TCORE GET CORE FOR JCT
                                                                       02000014
                                  GET BASE FOR JCT
                                                                       02030014
         i R
              R11.R1
SD612020 EQU
                                                                       02080015
                                  POINT TO NEXT ECB POINTER
         LA
              R8,4(R8)
                                                                       02100015
                                  LOAD ECB POINTER
                                                                       02120015
              R1,0(R8)
         1
                                                                       02140015
         TM
               O(R1), POSTBIT
                                  IS IT POSTED
                                  YES, BRANCH TO SET UP FOR Q-MANAGER
                                                                       02160015
         80
               SD612010
                                                                       02180015
SD612030 EQU
                                  IS THIS END OF ECB LIST
                                                                       02200015
         TM
              O(R8), ENDBIT
                                  NO. BRANCH AND CHECK NEXT ECB
                                                                       02220015
         82
               SD612020
                                  YES, SET UP FOR WAIT ROUTINE
                                                                       02240015
               SD061028
        ****************
                                                                      02660014
         SET UP TO GO TO QUEUE MANAGER AND SEE IF THERE IS WORK
                                                                    * 02690014
************
                                                                       02720014
SD612010 EQU
                                                                       02740015
              R3, REMLST
                                  LOAD ADDRESS OF REMOTE AREA
                                                                       02760015
         IΔ
                                  PLACE ADDRESS IN OMPA
                                                                       02780015
         ST
               R3,QMPCL
                                  INDICATE DEQUEUE
                                                                       02800015
         MVI
               OMPOP.OMDTOP
               OMTPY(1),4(R1)
                                  INDICATE JOB CLASS
                                                                       02820015
         MVC
         ST
               R11,LCTJCTAD
                                       PUT JCT CORE ADDR IN LCT
                                                                       02870014
               R11, REMLST
                                       PUT JCT CORE ADDR IN REMOTE
                                                                       02900014
         ST
```

```
LIST
                                                                            02930014
                                          ZERO TTR SLOT IN REMOTE LIST
         ХC
               REMLST+4(4),REMLST+4
                                                                            02960014
         SI
               R1.OMCAN
                                                                            03020015
                                          GET ADDR OF O MANAGER RIN
               R15, IEFQMVCN
                                                                             03110014
         L.R
               R1.R9
                                          OMPA ADDR INTO RI
                                                                            03140014
         BALR
               R14,R15
                                          GO TO QUEUE MANAGER TO TRY TO
                                                                             03170014
                                          GET WORK
                                                                            03200014
               SD061020(R15)
                                          BRANCH INDEXED BY RETURN CODE
                                                                            03230014
                                     JOB DEQUEUED - GO TO PROCESS IT NO WORK, CONTINUE CHECKING
$0061020
               $0061040
                                                                             03260014
                                                                             03290015
               50612030
         BC
               0.50061020
                                          NO-OP+NO SPACE
                                                                             03320014
***** I/O ERROR ***** TEMP ABEND AND LOOP
                                                                             03350014
                          COND CODE=12, GO TO ABEND ROUTINE
                                                                        099 03410019
               BADIO
         В
****
                                                                             03470014
                 ***
               WTUSWTCH.X ! FF !
                                     CHECK TO SEE IF 'INPUT QUEUE EMPTY'
SD061028 TM
                                                                             03500014
                                     MESSAGE HAS ALREADY BEEN PUT OUT
                                                                             03530014
                                     ONCE DURING THIS INITIATOR'S WAIT
                                                                             03560014
                                     FOR WORK
                                                                             03590014
         BC
               8,SD061030
                                     YES - BRANCH AROUND WTO
                                                                             03620014
               WTOSWTCH.X'00'
                                     TURN OF SWITCH SO MESSAGE WILL NOT
         N I
                                                                             03650014
                                     BE PUT OUT AGAIN UNTIL AFTER THIS
                                                                             03680014
                                     INIT HAS RECEIVED WORK AND PROCESSED 03710014
                                     IT AND GONE INTO A WAIT AGAIN
                                                                            03740014
               RO.WTO429EX
                                 SIZE OF WTO AND INIT ID
                                                                     A27668 03742019
         LA
         GETMAIN R.LV=(0)
                                CORE FOR MSG
                                                                     A27668 03744019
             RI WILL BE MAINTAINED FOR MSG AREA BASE
                                                                     A27668 03746019
                                WTO CSECT
                                                                     A27668 03748019
               R2.MSGAD
         MVC
               DO(WTO429A,R1),DO(R2)
                                        1ST HALF OF WIN MSG & QUOTEA27668 03750019
               R15, WTO429A(,R1)
                                     WHERE INIT ID IS TO GO
                                                                     A27668 03752119
         LA
         LR
               RO, R15
                                     SAVE FOR LENGTH (LNG) COMPUTE
                                                                    A27668 03753019
               DO(D8.R15).LCTIDENT INIT FOR MSG
         MVC
                                                                     A27668 03757019
         LA
               R14,D8
                                LOOP LIMITING REG
                                                                     A27668 03758019
           WILL NOW FIND 1ST
                              BLANK IN ID IF ONE
                                                                     A27668 03760019
5061750
         CL I
               DO(R15)+BLANK
                               IS ID BYTE BLANK
                                                                     A27668 03762019
               SD61751
         BE
                                YES - END OF ID
                                                                     A27668 03764019
               R15,D1(,R15)
                                NO - TEST NEXT HIGHER BYTE
                                                                     A27668 03766019
         IΔ
                               LOOP IF NOT END OF ID SCAN
         BCT
               R14,SD61750
                                                                     A27668 03768019
    RIS NOW POINTS TO BYTE AFTER END OF ID
                                                                     A27668 03770019
                                                 LAST HALF OF MSG
         MVC
               DO(WTO4298,R15),WTO429A(R2)
SD61751
                                                                     A27668 03772019
                                STARTING WITH SECOND QUOTE
                                                                     A27668 03774019
               R15.R0
                                COMPUTE ID LNG
                                                                     A27668 03776019
         SR
         ΔH
               R15,DO(,R1)
                                ADD WTO MSG LNG TO THIS VALUE
                                                                     A27668 03778019
         STH
                                UPDATE WTO MSG LNG
               R15.DO(.R1)
                                                                     A27668 03780019
                                SAVE MSG ADR
         LR
               R2.R1
                                                                     A27668 03782019
         WTO
                                ISSUE MSG TO OPERATOR
                                                                     A27668 03784019
               MF = (E_{+}(1))
               RO.WT0429EX
                                 SIZE OF WTO AND INIT ID
         IΔ
                                                                     A27668 03786019
         LR
               R1,R2
                                SET R1 AGAIN WITH MSG CORE ADR
                                                                     A27668 03788019
         FREEMAIN R.LV=(0).A=(1)
                                     FREE MSG CORE
                                                                     A27668 03790019
                                     GET JCT ADDRESS
SD061030 LR
               R1,R11
                                                                             03810014
         FREEMAIN R.LV=176.A=(1).SP=TCORE
                                                     FREE JCT CORE
                                                                             03820014
               LCTJCTAD(D4),LCTJCTAD
                                          ZERO OUT JCT ADDRESS
                                                                       1272 03825019
                              GET LIFE OF YASK BLOCK ADDR
               R1,R10
                                                                                 0389
                                                                                 0390
               15,16
                              MOTHER CVT
                15,0(0,15)
                               DOUBLEWORD
                                                                                 0391
                              THE TCB
               15,4(0.15)
                                                                                 0392
                15,12(0,15)
                              OUR TIOT
                                                                                 0393
         CLI
               0(15),C'F'
                              FIXED PARTITION?
                                                                                 0394
```

```
0395
         BNE
               LACTATE
                              NO
                                   GET ADDRESS OF IEFSD062.
RIMP IT TO FIT FLAG:
               R15, IEFSD62V
         1 4
               RIS-DISPLACE(RIS)
               0(R15),X'FF'
                                   SET FIT FLAG ON.
         MVI
               R1.ECHLIST
HITIT
                                   LOAD ECB LIST PTR.
         WAIT
               1, ECBLIST=(1) WAIT FOR WORK
                                                                               0397
                              SKIP MICKEY MOUSE
               FIRST+2
                                                                               0398
LACTATE
         EQU
                                                                               0399
               EP=IEFSD105,MF=(E,(1)) XCTL TO LINK PACK AREA TO WAIT
         XCTL
                                                                           03890014
                                       FOR WORK OR STOP INIT - THUS MAKING AVAILABLE THE SPACE THE
                                                                           03920014
                                                                           03950014
                                       TEFSDO61 LOAD IS OCCUPYING
                                                                           03980014
SD061037 EQU
                                                                           04040015
               R3.LCTSREG
                                                                           04070015
         TM
               LCTOPSW1, LCTICMDF
                                    PROCESSING INITIATOR COMMANDS
                                                                     M3161 04100019
         BO
               NOTTHRES
                                    NO, DONT REDUCE THRESHOLD
                                                                     M3161 04130019
               R7,16
                                               ADDRESS OF CVT
                                                                           04160000
         USING CVTDSECT.R7
                                                                           04180000
                                               GET ADDRESS OF RESID CORE
               R7,CVTJOB
                                                                           04200000
         USING OMRDSECT.R7
                                                                           04220000
                                                                           04240000
         ENO
               MF=(E.IEFSD618)
                                               ENQUEUE ON ASSIGN/DELETE
                                                                           04260000
               RC. OMTBT
                                               GET SIZE OF THRESHOLD
         1 H
                                                                           04280000
         TM
               OMOBK -OMRSV
                                    TEST IF HAVE RESERVE
                                                                           04300000
         ΒZ
               $0061038
                                    NO-THIS INIT'S THRSHLD WILL BE RESV
                                                                           04320000
                                               SUB SIZE GARENTEED AN INIT 04340000
         SH
               RO . OMTRS
               RO, QMTBT
                                               SAVE NEW SIZE
         STH
                                                                           04360000
               OMOBK .OMRSV
                                    SET RESERVE BIT ON
SD061038 01
                                                                           04380000
         DEΩ
               MF=(E.IEFSD618)
                                               DEQUEUE ON ASSIGN/DELETE
                                                                           04400000
NOTTHRES EQU
                                                                     M3161 04460019
         IΔ
               R7.SD612073
                                                                           04522015
SD612270 EQU
                                                                           04524015
SD612070 EQU
                                                                           04528015
                                    ADDRESS OF ECBLIST
               R6.ECBLIST
                                                                      1272 04528319
               R8+R6
         1 R
                                    SAVE ECHLIST ADDRESS
                                                                      1272 04528619
               R8 + R8
                                    IS THERE AN ECBLIST
                                                                      1272 04528919
         LTR
               D8 + R7
                                    NO. DONT UNCHAIN IT
         BCR
                                                                      1272 04529219
NEXTECH
         FOU
                                                                      1272 04529519
         LA
               R8,4(R8)
                                    LOAD ADDR OF POINTER TO ECH
                                                                           04530015
               R1 v0(R8)
                                    LOAD ECB POINTER
                                                                           04532015
         L
         LA
               R1,0(R1)
                                    CLEAR HIGH ORDER BYTE
                                                                           04533015
         TM
               O(R1) .POSTBIT
                                    TEST FOR POSTED
                                                                           04534015
               SD612072
                                    NO, BRANCH AND UNCHAIN
         A7
                                                                           04536015
SD612071 EQU
                                                                           04538015
         TM
               O(R8), ENDBIT
                                    TEST FOR END OF LIST
                                                                           04540015
         ΒZ
               NEXTECB
                                    NO, GO TEST NEXT ECB
                                                                      1272 04542019
                                    YES RETURN
         AR
               R7
                                                                           04544015
SD612072 EQU
                                                                           04546015
               R15.0MNCVCON
                                    GET ADDRESS OF UNCHAIN ROUTINE
                                                                           04548015
                                    GO TO UNCHAIN
         BALR
               R14,R15
                                                                           04550015
               0(R1),X*40*
         MVI
                                    POST UNCHAINED ECB
                                                                           04551016
                                    GO CHECK FOR END OF LIST
               SD612071
                                                                           04552015
SD612073 EQU
                                                                           04552515
         LTR
                                    IS THERE AN ECBLIST
               R6+R6
                                                                      1272 04553519
               TESTKEY
                                                                      1272 04554519
         BZ
                                    NO, DONT FREE IT
               R1.R6
         LR
                                    LOAD POINTER TO ECB LIST
                                                                           04556015
```

```
L.A
                RO.4
                                   LOAD CONSTANT DF 4
         SR
                R1,RO
                                   SUBTRACT TO GET TO LENGTH OF ECBLIST 04560015
               R0.0(R1)
                                   LOAD LENGTH
                                                                         04562015
        LΔ
               R8.TCORE
                                                                         04564015
         SLL
               R8.24
                                                                         04566015
        ΠR
               RO.R8
                                                                         04568015
        FREEMAIN R.LV=(()).A=(1)
                                                                         04570015
TESTKEY
        FOU
                                                                    1272 04572019
         TM
               LCTOPSW1.LCTPKFYF
                                   WAS PROTECT KEY GOTTEN
                                                                    1272 04574019
         BO
               NOTEREE
                                   NO. SO DONT FREE IT
                                                                    1272 04576019
               R6,16
                                  LOAD ADDR OF CVT INTO BASE REG 6
        L
                                                                         04580000
        USING CVTDSECT.R6
                                                                         04600000
               R6.CVTTCHP
                                  LOAD ADDR OF TCB INTO BASE REG 6
         L
                                                                         04620000
               R6,4(R6)
                                                                         04640000
               R1,R1
         ΧR
                                  CLEAR REG 1
                                                                         04660000
               R1,28(6)
         10
                                  INSERT PROTECT KEY INTO BASE REG 1
                                                                         04680000
         SRL
               R1,4(0)
                                  MOVE KEY TO LOW ORDER BITS OF REG
                                                                         04700000
         LA
               R2,1(0)
                                  LOAD 1 INTO REG 2
                                                                         04720000
         SLL
               R2.0(1)
                                  SHIFT LEFT KEY NUMBER OF BITS
                                                                         04740000
               R6,16
                                  LOAD ADDR OF CVT INTO BASE REG 6
                                                                         04760000
         USING CVTDSECT.R6
                                                                         04780000
               R6.CVTMSER
                                  LOAD ADDR OF MASTER INTO REG 6
                                                                         04783019
        USING BASE, R6
                                                                         04786019
         EX
               R2.EXXI
                                  TURN DEE KEY SWITCH
                                                                         04789019
         SRL
                                  SHIFT TO HI EIGHT BITS
               R2.8(0)
                                                                         04792019
               R2,EXX1A
                                  TURN OFF KEY SWITCH
         FX
                                                                         04795019
NOTEREE FOU
                                                                    1272 04798019
               R9,LCTEXIT
                                   SAVE ADDRESS OF EXIT LIST
                                                                    1272 04801019
*****
                                                                        04804019
        LR
               R1.R10
                                   ADDRESS OF LIFE OF TASK BLOCK
                                                                         04807019
        LA
               RO, IEFEND-IEFLOT
                                   LENGTH OF LOT
                                                                         04810019
               R14,TCORE
                                   SUBPOOL NUMBER
        I. A
                                                                         04813019
         SLL
               R14,24
                                   PLACE IN HIGH ORDER BYTE OF
                                                                         04816019
        ΠR
               RO, R14
                                   LENGTH REGISTER
                                                                         04819019
        FREEMAIN R.LV=(0),A=(1) FREE LOT
                                                                         04822019
               R1,R11
                                                                         04825019
USING IELEXITS, R9
                                   EXIT LIST ADDRESSABILITY
                                                                    1272 04831019
                                   ZERO HIGH ORDER BYTE
               R9,ZERO(R9)
        IΔ
                                                                    1272 04834019
        LTR
               R9,R9
                                   IS THERE AN EXIT LIST
                                                                   1272 04837019
                                   NO, EXIT TO MASTER SCHED
         ΒZ
               RETURN
                                                                   1272 04840019
        LR
               R1,R9
                                   EXIT LIST ADDRESS
                                                                   1272 04843019
                                   IS THIS A BRANCH EXIT
         CLI
               RINEXLK. IELEXADD
                                                                   1272 04846019
         BE
               BRANCH
                                   YFS, PREPARE TO BRANCH
                                                                   1272 04849019
                                   REMOTE LIST + SUP PARMLIST
        LA
               RO.D16
                                                                   M4339 04852019
                                  GET CORE FOR REMOTE LIST
         GETMAIN R.LV=(0)
                                                                   M4339 04855019
         ХC
               ZERO(D16,R1),ZFRO(R1)
                                        CLEAR CORE
                                                                   M4339 04858019
        LR
               R15.R1
                                   ADDR OF SUP PARMLIST
                                                                   M4339 04861019
                                   ADDR OF REMOTE LIST
        IΔ
               R2.D8(R1)
                                                                  M4339 04864019
         LR
               R1,R9
                                  EXIT LIST ADDRESS
                                                                   M4339 04867019
         MVC
               ZERO(D6,R2),RINEXNM MOVE EXIT NAME
                                                                   M4339 04870019
        MVI
               D6(R2),BLANK
                                  PAD WITH BLANKS
                                                                   M4339 04873019
         MVI
                                                                   M4339 04876019
               D7(R2), BLANK
                                  PAD WITH BLANKS
         CT.
                                   REMOTE LIST ADDR
               R2,ZERO(R15)
                                                                  M4339 04879019
               R2,R15
         LR
                                   ADDR OF SUP PARMLIST
                                                                  M4339 04882019
                                   IS EXIT BY XCTL
        CLI
               RTNEXLK. IELEXXTL
                                                                   1272 04889619
        BE
               GOXCTL
                                   YES, PREPARE TO XCTL
                                                                   1272 04889719
```

```
IF EXIT IS NOT BY BR OR XCTL, LINK IS ASSUMED
                                                                    1272 04889819
                MF=(E,(1)),SF=(E,(15)) GO TO EXIT ROUTINE
                                                                    M4339 04890619
         LINK
         a
               RETHRN
                                   GO RETURN
                                                                    M4339 04891419
GOXCIL
         EQU
                                                                    M4339 04892219
         XCTL
               •MF=(E,(1)),SF=(E,(15)) GO TO EXIT ROUTINE
                                                                    M4339 04893019
BRANCH
         EQU
                                                                    M4339 04893819
                                   ADDRESS OF EXIT ROUTINE
               R15.RTNEXAD
                                                                    M4339 04894619
         BR
               R15
                                   BRANCH TO EXIT ROUTINE
                                                                    M4339 04895419
RETURN
         FOU
                                   RETURN TO ATTACHER
                                                                   M4339 04896219
         LR
               R14,R3
                                   INITIALIZE RETURN REGISTER
                                                                   M4339 04897019
         BR
               R14
                                                                          04898015
MOVEMESS MVC
               0(0,R3),31(R2)
                                                                          04903015
ENDBIT
         FQU
               X1801
                                                                          04908015
EXXI
         ΧI
               BARSW+5+0
                                  TURN OFF PROTECT KEY
                                                                          04917019
               BARSW+4,0
FXXIA
         Χī
                                                                          04918019
SD061040 EQU
                                                                          04919019
         USING IEFCSCB.R1
                                                                     1272 04920019
                                   CSCB ADDRESSABLITY
                                   INDICATE FREE WHEN JOB TERM
                                                                     1272 04921019
         ÐΙ
               CHSTS . CHDL
         OR OP
                                                                     1272 04922019
               RI
               R1,LCTGDRTY
                                   ADDRESS OF JOB CSCB
                                                                     1241 04923019
         ST
         USING IOPARAMS, R9
                                   OMGR PARAM AREA ADDRESSABILITY
                                                                    1272 04924019
JCTIN
         EDU
                                                                     1272 04925019
                                   SIZE OF WTPCB
SUBPOOL IN HIGH ORDER BYTE
               RO.WTPCBSIZ
                                                                    M4339 04926019
         LA
               RO,M253
         n
                                                                     1254 04927019
                                   GET CORE FOR WIPCB
                                                                     1254 04928019
         GETMAIN
                    R,LV=(0)
                                    SAVE ADDRESS
         I Q
               R6.R1
                                                                     1254 04929019
         ХC
               ZERO(WTPCBS1Z -R1) , ZERO(R1)
                                              ZERO WTPCB
                                                                    M4339 04930019
                                   GET MVT JSCB
         GETJSCB
                                                                    1254 04931019
                    SYSTEM=MVT
         USING IEZJSCB.R1
                                   JSCB ADDRESSABILITY
                                                                     1254 04932019
                                   ADDRESS OF JSCB TO LCT ADDRESS OF WTPCB TO JSCB
         ST
               R1.LCTJSCB
                                                                     1254 04933019
         ST
               R6.JSCBWTP
                                                                     1254 04934019
               JSCBCSCB+ONE(D3), LCTQDRTY+ONE ADDR CSCB
                                                                     1254 04935019
         MVC
                                   IS TIMING WANTED
         TM
               LCTOPSW2, LCTTIMEF
                                                                     1272 04936019
         BNO
               YESTIME
                                   YES, CONTINUE
                                                                     1272 04937019
                                         NO. INSERT MAX TO
         MVC
               JCTJMRTL, HDUR 24
                                                                     1272 04938019
                                         INDICATE NO TIMING
                                                                     1272 04939019
YESTIME
         EQU
                                                                     1272 04940019
               RO,RO
         SR
                                   CLEAR REGISTER
                                                                     1272 04943019
         STC
               RO.FRCPRTY
                                   CLEAR FORCE SLOT IN LCT
                                                                     1272 04946019
               R1, ECBLIST
                                    ADDRESS OF ECBLIST
                                                                     1272 04949019
                                   IS THERE AN ECBLIST
NO, DONT INSERT FORCE IN LCT
         LTR
               R1.R1
                                                                     1272 04952019
               NOFORCE
                                                                     1272 04955019
         ВZ
                                   LOAD ADDRESS OF FIRST JOB ECB
               R1,4(R1)
                                                                    1241 04963018
         LA
                                   DETERMINE OFFSET INTO
               R8,R1
                                                                     1241 04964018
         SR
         SRL
               R8,2
                                      FORCE TABLE
                                                                     1241 04965018
               R1,LCTFORCE
                                   LOAD ADDRESS OF FORCE TABLE
         I. A
                                                                    1241 04968018
         I C
               RO,0(R8,R1)
                                   LOAD FORCE VALUE
                                                                     I241 04969018
                                                                    1241 04970018
         LTR
               RO.RO
                                   WAS FORCE SPECIFIED
         82
               SD061044
                                   NO, BRANCH AND CONTINUE
                                                                     1241 04971018
         STC
               RO.FRCPRTY
                                   YES. STORE FORCE PRTY IN SLOT
                                                                    1241 04972018
SD061044 EQU
                                                                     1241 04973018
               R8,ECBLIST
                                   LOAD POINTER TO ECBLIST
                                                                          04980516
         BAL
               R7,SD612070
                                   GO UNCHAIN ECBS
                                                                          04981016
NOFORCE
         EQU
                                                                     1272 04981219
         1.
               R1.LCTODRTY
                                   RESTORE REGISTER ONE
                                                                          04981516
****
             ************************
```

```
MVN
               JCTJPRTY(1).QMPRI
                                   REPLACE THE JOB'S ORIGINAL
                                                                   CR17 04984017
                                   PRIORITY IN THE JCT WITH ITS PRESENT 04986014
                                   PRIGRITY FROM THE OMPA. IN CASE ITS
                                                                        NAGRANI 4
                                   PRIORITY WAS CHANGED WHILE IN THE
                                                                        04990014
                                   INPUT QUEUE
                                                                        04992014
                                                                        04994014
                                       INDICATE INITIATOR OMPA
         0.1
               QMPRI + X 1 201
                                                                  994
                                                                        05000000
               R6.16
                                       LOAD ADDR OF CVT INTO BASE R6
                                                                        05020000
         USING CVTDSECT,R6
                                                                        05040000
               R6.CVTTCBP
                                                                        05060000
               R6,4(R6)
                                       LOAD ADDR OF TCB INTO BASE R6
                                                                        05080000
         L
                                       LOAD ADDR OF TIOT INTO R5
               R5,12(R6)
                                                                        05100000
         DROP
               R6
                                                                        05120000
               LCTOPSW1 . LCTICMDF
                                   PROCESS INIT COMMANDS
                                                                  M4339 05126019
         TM
         80
               MASTAMON
                                   NO, DONT UPDATE TEOT
                                                                  M4339 05132019
               8(8+R5),QMNAM
         MVC
                                       MOVE JOBNAME INTO TIOT SSS FIELD 05140000
NOMVJBNM EQU
                                                                  M4339 05150019
         TM
               QMSTA+CANCELED
                                  WAS JOB CANCELLED IN-QUEUE
                                                                        05160000
         BC
               8.50061042
                                  NO. CONTINUE
                                                                        05180000
         USING IELEXITS, RZ
                                   EXIT LIST ADDRESSABILITY
                                                                    1272 05182019
               R2, LCTEXIT
                                   ADDRESS OF EXIT LIST
                                                                    1272 05184019
         LA
               R2, ZERO(R2)
                                   CLEAR HIGH-ORDER BYTE
                                                                    1272 05186019
         LTR
               R2, R2
                                   IS THERE AN EXIT LIST
                                                                    1272 05188019
               NOEXITL
                                   NO, NO RETURN CODE
                                                                    1272 05190019
         BZ
               IELRINCD, IOERR
         MVI
                                   YES. INSERT I/O RETURN CODE
                                                                   1272 05192019
                                                                    1272 05194019
NOEXITL
         EQU
                                  YES. SET JOB-FAIL BIT IN JCT
TURN ON TERM BIT
         10
               JCTJSTAT, INCMSTS
                                                                        05200000
               LCTGENTY, LCTERRM
         01
                                                                        05202014
         XC
               JCTDETDA (3) , JCTDETDA
                                        ZFRO OUT TTR OF DSENO TABLE
                                                                        05205014
                                        SO DATA SETS WILL NOT BE
                                                                        05210014
                                        ENQUEUED UPON
                                                                        05215014
$D061042 EQU
                                                                        05220000
05240000
                                             INSERT PROTECT KEY FROM
                                                                      ×
                                                                        05260000
                                             INITIATOR TOB AND PLACE
                                                                      * 05280000
                                             IN JCT FOR UNIQUE JOB
                                                                        05300000
                                                                      *
                                             SERIAL NO.
                                                                        05320000
*****************
                                                                        05340000
         USING IEFCSCB,R1
                                                                        05380000
                                                                         05400000
                                             SAVE O AND POINTER TO JOB
                                                                        05420000
                                             NAME IN THE STACK AND
                                                                         05440000
                                             QUEUE BREAK AREA. JOB NAME
                                                                        05460000
                                                                        05480000
                                             NEEDED FOR MESSAGE AND
                                                                        05500000
                                             CANCEL JOB COMMAND. O IS
                                             TO INDICATE TRACKS OF
                                                                        05520000
                                             QUEUE USED BY INITIATOR
                                                                         05540000
                                                                         05560000
         LA
               R2, CHKEY
                                             GET POINTER TO JOB NAME
                                                                        05580000
         ST
               R2, TRSTKINF+4
                                             PUT IN O AND JOB NAME PTR
                                                                        05600000
               TRSTKINF+4(1), JCTNTRK
         MVC
                                       MOVE TRACKS USED
                                                                         05603018
         MVC
               CHJCL(4), JCTDSKAD
                                       PLACE JCT TTR IN CSCB OF JD CR17
                                                                        05606017
         MVI
               CHJCL+3,X'00'
                                       BE SURE LAST BYTE IS ZERO
                                                                   CR17 05612017
               R1, CHSWT
                                             R1 = TCB ADDR
                                                                         05620000
          EQU
TCBPKF
               28
                                                                        05640000
         DROP
               R 1
                                                                  M2942 05641019
               R2.LCTODRTY
                                   ADDRESS OF CSCB
                                                                  M2942 05642019
```

```
USING IEFCSCB,R2
                                CSCB ADDRESSABILITY
                                                             M2942 05643019
                                IS THIS FOR A SYSTEM TASK
             CHSWT, CHSYS
        TM
                                                             M2942 05644019
        BND
              NOTZEROK
                                NO, PUT IN PROTECT KEY
                                                             M2942 05645019
        DROP
                                                             M2442 U5646U14
* 119450
                                                             M400B 05647019
                                YES. INSERT NONZERO NUMBER
        MVI
              JCTJSRNO, FOXFOX
                                                              1272 05649019
              ZEROKEY
                                SKIP MOVE FROM ICB
                                                              1272 05652019
NOTZEROK EQU
                                                              1272 05655019
        MVC
              JCTJSRNO(1),TCBPKF(R1)
                                         MOVE PROTECT KEY TO JCT
                                                                   05660000
ZEROKEY
        EQU
                                                              1272 05670019
        DROP
             R1
                                                                   05680000
        GETMAIN R.LV=176.SP=TCORE
                                     GET CORE FOR SCT
                                                                   05700000
                                     ADDRESS OF GOTTEN CORE
        ST
              R1, REMLST
                                                                   05720000
        ST
              R1.LCTSCTAD
                                     SCT ADDRESS TO LCT
                                                                   05740000
        MVC
                                     ALTERNATE SCT TTR IN REMOT CR17 05770017
             REMLST+4(4), JCTSSTR
        SR
                                     ZERO A REGISTER TO
              R2,R2
                                                                   05800000
        ST
             R2,QMCAN
                                     ZERO OUT ECB SLOT
                                                                   05820000
        MVI
              QMPCL,1
                                     INDICATE ONE OPERATION
                                                                   05840000
             QMPDP,4
        MVI
                                     INDICATE READ OPERATION
                                                                   05860000
        LR
             R1,R9
                                     ADDRESS OF Q MGR PAR AREA
                                                                   05880000
                                     ADDRESS OF READ MODULE
             F.15 , IEFQMRD
                                                                   05900000
        BALR
                                     GO TO THE READ MODULE
             R14,R15
                                                                   05920000
                                                               099 05980019
        LTR
              R15,R15
                       ANY NON-ZERO COND CODE
                       YES - GO TO ABEND ROUTINE
             BADIO
        BN7
                                                               099 06040019
******
                                                                   06120000
06140000
                                                                 * 06160000
  AT THIS POINT, CHANGE THE INITIATOR'S PRIORITY TO REFLECT THE
                                                                 * 06180000
  PRIORITY OF THE JOB GOTTEN FROM THE QUEUE
                                                                 * 06200000
                                                                 * 06220000
******************************
SD061060 EQU
                                                                   06260000
             R1,LCTSCTAD
                                LOAD ADDRESS OF SCT
                                                              CR17 06265017
        USING IEFSCT,R1
                                                              CR17 06270017
             SCTSDP, SCTFSTEP
        01
                                TURN ON FIRST STEP BIT
                                                              CR17 06275017
        SR
             R1,R1
                                     ZERO DUT R1
                                                                   06280000
                                     MSGLEVEL AND PRIORITY TO RI
             R1, OMPRI
        IC
                                                                   06300000
             RO, X'OF'
        LA
                                     LOAD A MASK
                                                                   06320000
        NR
             R1,RO
                                     'AND' OUT MESSAGE LEVEL
                                                                   06340000
        STC
             R1, LCTQDRTY
                                PLACE LPMOD VALUE IN LCT
                                                              1241 06430018
  ************************
        THE FOLLOWING CODE WILL READ THE SYSOUT CLASS DIRECTORY
                                                                 * 06540000
        FROM DISK AND FROM THE FIRST ENTRY IN THIS DIRECTORY, WHICH
                                                                 * 06560000
        IS THE MSGCLASS ENTRY, WILL BUILD THE MSGCLASS OMANAGER
                                                                 * 06580000
        PARAMETER AREA. THE POINTER TO THIS NEW AREA WILL BE STORED
                                                                * 06600000
        IN THE LCT. (OFFSET 68)-
                                                                 * 06620000
  DIRECT SYSOUT (DSO) ROUTINES WILL ALSO SCAN THE SCD LATER ON
                                                               099 06626019
  IN THIS PROGRAM.
                                                               099 06632019
LA
             R1,REGSAVE+72
                                    Q MGR EXTERNAL PAR AREA
                                                                   06660000
        ХC
             O(B,R1),O(R1)
                                    CLEAR AREA TO ZERO
                                                                   06680000
        ST
             R1,QMPCL
                                    STORE POINTER TO EXT PARM AREA
                                                                  06700000
        LR
             R3,R1
                                    SAVE POINTER
                                                                   06720000
        GETMAIN R, LV=176
                                    GETMAIN FOR THE SCD
                                                                  06740000
                                    DIRECTORY READ IN AREA
                                                                 * 06760000
        ST
             R1,0(0,R3)
                                    STORE POINTER TO READ IN AREA
                                                                  06780000
                                    INTO EXT PARAM AREA
                                                                 * 06800000
```

```
MVC
             4(3,R3),JCTDSSBA
                                    MOVE SCD DISK ADDR INTO FXT
                                                                    06820000
                                    PARAM ARFA
                                                                  * 06840000
        MVI
              QMPOP,X1041
                                    INDICATE READ TO QMANAGER
                                                                    06860000
                                    INDICATE ONE RECORD TO BE READ
        MVI
             QMPCL,X'01'
                                                                    06880000
        LR
             R4.R1
                                    SAVE POINTER TO READ. IN AREA
                                                                    06900000
        ŀΔ
             R13.RFGSAVE
                                     POINTER TO SAVE AREA
                                                                    06920000
        LR
             R1,R9
                                    LOAD POINTER TO AMPA
                                                                    06940000
              R15. IEFOMRD
                                                                    06960000
        1
        BALR
             R14.R15
                                    BRANCH TO QMANAGER
                                                                    06980000
        LTR
              R15,R15
                       ANY NON-ZERO COND CODE
                                                                099 06986019
                                                                ngg 06992019
        RAI7
                       YES - GO TO ABEND ROUTINE
              RADIO
THE FOLLOWING CODE WILL GET CORE FOR AND BUILD THE MSGCLASS * 07020000
                                                                  * 07040000
        OMGR PARAM AREA AND ITS ASSOCIATED IOB
****************************
                                     ADDRESS OF SYSOUT QUEUE
              R1, LCTSOOMP
                                                                    07080000
                                     MANAGER PARAMETER AREA
                                                                    07100000
        XC.
              0(36,R1),O(R1)
                                    CLEAR GOTTEN AREA
                                                                    07120000
        MVC
              OMWTQ2(4),QMWTQ1
                                 MOVE TRK STACK INFO ADDR FROM
                                                                    07140000
                                     MAIN OMPA TO ALTERNATE ONE
                                                                    07160000
        MVC
              9(3,R1),1(R4)
                                    MOVE THE OMFLT AND OMIST FIELDS
                                                                    07180000
                                     FROM THE MSGCLASS SYSOUT CLASS * 07200000
                                    DIRECTORY INTO THE MSGCLASS
                                                                  * 07220000
                                     OMNGR PARAM AREA BEING BUILT
                                                                  * 07240000
        MVC
              14(1,R1),4(R4)
                                    MOVE OMNOT FIELD INTO OMPA
                                                                    07260000
                                    MOVE OMTID FIELD INTO OMPA
        MVC
              20(2,R1),5(R4)
                                                                    07280000
                                                               994
                                    INDICATE INITIATOR OMPA
        10
              17(R1),X'20'
                                                                    07300000
              R3,R1
                                     SAVE POINTER TO OMPA
                                                                    07320000
        1 R
     *******************
        GET CORE FOR, BUILD AND INITIALIZE THE IOB
                                                                  * 07360000
       LA
              RO.QIDBL+4
                                    LENGTH OF ECB/IOB+4
                                                                    07400000
                                     GETCORE IN SUBPOOL 253
        LA
              R14.TCORE
                                                                    07420000
                                     SHIFT TO HIGH ORDER BYTE
                                                                    07440000
        SLL
              R14,24
                                     OR INTO LENGTH REGISTER
        NR.
              RO, R14
                                                                    07460000
                                     SAVE SUBPOOL NO. AND LENGTH
                                                                    07480000
        LR
              R5.R0
        GETMAIN R.LV=(0)
                                    GET CORE FOR ECB/IOB
                                                                    07500000
        ST
              R5,0(R1)
                                     SAVE SUBPOOL AND LENGTH OF
                                                                    07520000
                                     ECB/IOB IN PRIOR 4 BYTES
                                                                    07540000
                                     ADDR OF ECB/IOB
              R5,4(R1)
        LA
                                                                    07560000
        ST
              R5,28(0,R3)
                                     STORE ADDR IN OMEIA FIELD OF
                                                                    07580000
                                     QMGR PARAM AREA
                                                                  * 07600000
        MVC
              O(RIOBL, R5), RMECB
                                     MOVE BASIC ECB/IOB MAP TO GOTTEN 07620000
                                     AREA
                                                                   07640000
                                     SET ECB ADDR INTO 108
        ST
              R5,QIDBA(R5)
                                                                    07660000
              R1,QIOBC(R5)
                                     STORE ADDR OF CCW1 INTO
        LA
                                                                    07680000
        ST
                                             TOR
              R1.010BB(R5)
                                                                    07700000
        MVC
              QIOBD+1(3,R5),QIOBB+1(R5)
                                         AND INTO CCW2 FIELD
                                                                    07720000
        LA
              R1,Q108C-5(R5)
                                    ADDR OF IOBSEEK FLD + 3
                                                                    07740000
        ST
              R1,QIOBC(R5)
                                        INTO THE IOB
                                                                    07760000
              QIOBC(R5),QMCOP
        01
                                                                    07780000
              R1,CVTPTR
                                     GET
                                         CVT PTR
                                                                    07800000
        ŧ.
        USING
             CVTDSECT,R1
                                     ADDRESS THE CVT
                                                                    07820000
                                      ADDR OF SCHEDULER DCB
        L
              R1.CVTJOB
                                                                    07840000
        ST
              R1+QIOBDCB(R5)
                                     STORE DCB ADDR IN IOB SLOT
                                                                    07860000
        DROP
              R1
                                                                    07880000
                                                                099 07880519
```

```
099 07881019
        * * * * DETERMINE IF DIRECT SYSOUT (DSO) IS TO
                BE INVOKED FOR THIS JOB.
                                                             099 07881519
                                                             099 07882019
             LCTOPSW2, LCTOSOF
                             IS DSO SURPRESSED BY L-SHAPE
                                                             099 07882519
        TM
                             YES - BYPASS DSO TESTS
                                                             099 07883019
        80
             NODSO
             R1,CVTPTR
                           LOCATION OF CVT
                                                             099 07883519
        USING CVTDSECT,R1
                                                             099 07884019
                           CVT BASE
             R1.CVTMSER
                          ADR OF MASTER SCH DATA AREA
                                                             099 07884519
        USING BASE, R1
                          M/S BASE REG
                                                             099 07885019
             R1,BADSO
                     FIRST DSDCB ADR
                                                             n99 07885519
        DROP
                                                             099 07886019
             R1
             R1,NO(,R1)
                                                             099 07886519
        LA
                           CLEAR H/O
        LTR
                           ANY ADR TO DSOCB CHAIN
             R1.R1
                                                             099 07887019
             NODSO
                           NO-BYPASS ALLOCATION OF DSOCH'S
                                                             099 07887519
        BZ
                                                             099 07888019
            * * FOLLOWING CODE IS INCASE THE DSO ROUTINE IS
                                                             099 07888519
                EVER MADE A SEPERATE MODULE SINCE CODE IS ALSO
                                                             099 07889019
                SIMILAR FOR TEFSD511 IN MFT.
                                                             099 07889519
                                                             099 07890019
             RI, OMPCL GET OMGR EXTERNAL PARM LIST
                                                             099 07890519
                           ADR OF SCO INTO PARM LIST FOR OMGR
        ST
             R4,NO(,R1)
                                                             099 07891019
        MVC
                                    ADR OF Q MGR RD/WR
                                                             099 07891519
             LCTPARM1(N4), IEFOMRD
                          REG SAVE AREA
                                                             099 07892019
        LA
             R13, REGSAVE
                           ADR OF LOT
        LR
             R1,R10
                                                             099 07892519
                           ADR OF DSO SELECT ROUTINE
             R15, DSOVCON
                                                             099 07893019
        BALR
             R14,R15
                           BRANCH TO DSD SELECT ROUTINE
                                                             099 07893519
                                                             099 07894019
        ITR
             R15,R15
                      ANY I/O ERRORS
                                                             099 07894519
                      YES - GO TO ABEND
        BNZ
             BAUIO
                                                             099 07895019
                                                             099 07895519
NODSO
        EQU
                                                             099 07896019
                                                             099 07896519
                                   LOAD POINTER TO SCD AREA
             RI,R4
                                                                 07900000
        FREEMAIN R, LV=176, A=(1)
                                    FREE SCD CORE
                                                                 07920000
* 07960000
 INITIALIZE TIMER WORK AREA FOR THE JOB, JOBLIB DCB PTR, DMDSC FIEL CR17 07970017
 IN OMPA, AND STEP NO. IN LCT.
                                                            CR17 07980017
                                                               * 08000000
08040000
        XC
             LCTTMWRK(16), LCTTMWRK
                                    ZERO TIMER WORK AREA
                                                                 08060000
             LCTJOBLB, LCTJOBLB
        XC
                                    ZERO THE JOBLIB POINTER
                                                                 08080000
        ХC
             QMOSC(1),QMOSC
                                    ZERO OUT QMOSC FIELD IN Q CRI7 08086017
        MVC
                                    MOVE STEP NO. FROM JCT TO CR17 08092017
             LCTSNUMB(1), JCTSNUMB
                                                                 08100000
DATA SET INTEGRITY CODE
                                                                 08140000
                                                                 08160000
 FUNCTION: 1.TO READ THE DATA SET ENG TABLE PREPARED BY THE INTERPRETER 08180000
          2.WRITE A NEW TABLE WITHOUT DUPLICATES FOR USE IN 16FSD166
                                                                 08200000
          3.TO PREPARE AN END PARAMETER LIST FOR USE IN 1EFSD102.
                                                                 08220000
                                                                 08240000
   08280000
        USING DSNIN,R4
                                                                 08300000
DIMODULE XC
           LCTPARM1+LCTPARM1
                                       CLEAR TO ZERO
                                                                 08301019
```

```
CSCB ADDRESSABILITY
         USING TEFCSCH,R1
                                                                      M4351 08302019
                                     ADDRESS OF CSCB
                                                                       M4351 08303019
                KI, LCTQDRTY
         TM
                CHSWT. CHDSI
                                     IS DATA SET INTEGRITY WANTED
                                                                       M4351 08304019
         BNO
                WANTOSI
                                     YES. BRANCH
                                                                       M4351 08305019
                                          NO. ZERO SO NO DEO LATER
         ХC
                JCTDETDA(D3), JCTDETDA
                                                                       M4351 08306019
                $0061200
                                     BYPASS DATA SET INTEG PROC
                                                                       M4351 08307019
WANTDSI
         EOU
                                                                       M4351 08308019
                JCTJSTAT, INCMSTS
                                     HAS JOB BEEN CANCELLED
         TM
                                                                       M4351 08309019
                                     NO - GO SET UP DSI
                                                                       M4351 08310019
         BNO
                GODSI
         XC.
                JCTDETDA(D3), JCTDETDA
                                          ZERO SO NO DER LATER
                                                                       M4351 08311019
                SD/101200
         В
                                     BYPASS DATA SET INTEGRITY
                                                                       M4351 08312019
GODSI
         EQU
                                                                       M4351 08313019
                                               IF TTR PARM EQ ZERO THERE ARE NO DSNAMES FOR JOB
                JCTDETDA(3), JCTDETDA
                                                                             08340000
         nc.
         87.
                SD061200
                                                                             08360000
                                                                             08380000
         XC
                QEXPARM (40), QEXPARM
                                               CLEAR WORK AREAS .
                                                                             08400000
         GETMAIN R, LV=368
                                               DSNAME I/O AREAS
                                                                             08420000
                                               AND TREE-BUD AREA
                                                                             08440000
         LR
                R4.R1
                                               SAVE POINTER TO I/O AREA
                                                                             08460000
                                                                             08480000
 INITIALIZE PARAMETER LIST FOR TREE ROUTINES
                                                                             08500000
                                           CLEAR TO ZERO
         XC.
                BUD.BUD
                                                                             08520000
         LΔ
                R3,BUD
                                                                             08540000
                                                                             08560000
         ST
                R3.TREE
                                               ADDR OF BUD
         MVI
                TREE,X'02'
                                               HIGH ORDER BYTE
                                                                             08580000
                R2.TREE-8
                                                                             08600000
         1. 4
                                               STORE IN TBUILD PARM LIST
         ST
                R2, TBLPARM
                                                                             08620000
                                                                             08640000
         XC
                                               CLEAR OUTPUT FIELDS
                OCTTR(14),OCTTR
                                                                             08660000
         MVI
                OTABID.X'OF'
                                               TABLE ID IN OUTPUT RECORD
                                                                             08680000
                                                                             08700000
      SETUP O MANAGER PARAMETERS AND READ
                                                                             08720000
                R3+QEXPARM
                                                                             08740000
         LA
                R3. WMPCL
                                               STORE ADDR IN EXT PARM AREA 08760000
         ST
                                               STORE TTR FOR 1ST READ
         MVC
                QTTR, JCTDETDA
                                                                             08780000
                                               ADDR OF 1ST OUTPUT RECORD
         LA
                R2, DSTART
                                                                             08800000
                                               POINTER TO INPUT AREA
SD061070 ST
                                                                             08820000
                R4, QEXPARM
         MVI
                QMPOP,X'04'
                                               INDICATE READ TO OMGR
                                                                             08840000
                                               INDICATE ONE REC TO BE READ 08860000
         MVI
                OMPCL . X'01'
                                               POINTER TO SAVE AREA
                R13, REGSAVE
                                                                             088880000
         LΔ
         LR
                R1, R9
                                               POINTER TO OMPA
                                                                             08900000
                R15+IEFQMRD
                                                                             08920000
         BALR
                R14,R15
                                               BRANCH TO QMANAGER
                                                                             08940000
         LTR
                R15,R15
                           ANY NON-ZERO COND CODE
                                                                         099 09000019
         BNZ
                BADIO
                          YES - GO TO ABEND ROUTINE
                                                                         099 09060019
OKRET
         EQU
                                                                             09120000
         OC
                TTRBUF1, TTRBUF1
                                               TEST FOR ZERO TIR
                                                                             09140000
                SD061080
                                                                             09160000
         BZ
         MVC
                TTRBUF2, ICTTR
                                               MOVE CURRENT TTR TO BUFFER2 09180000
                S0061090
                                                                             09200000
                                               MOVE CURRENT TTR TO BUFFER1 09220000
SD061080 MVC
                TTRBUF1, ICTTR
$D061090 LA
                R5,14(24)
                                               ADDR OF 1ST CHAR OF 1ST
                                                                             09240000
                                               RECORD IN BLOCK
                                                                             09260000
SD061100 LA
                R6.1(R5)
                                                                             09280000
                LENGTH+1(1),1(R5)
         MVC
                                               STORE LGTH OF CURNT DSNAME
                                                                             09300000
                                               R6-ADDR OF LAST CHAR OF DSN 09320000
         AH
                R6, LENGTH
                                               ZERO LENGTH INDICATES END
         CLI
                1(R5), X'00'
```

```
ВE
                SD061150
                                                 OFBLOCK
                                                                                09360000
                R5,2(R5)
                                                 R5 NOW POINTS TO 1ST CHAR
                                                                                09380000
                                                                                09400000
                                                 OF DSNAME
                                                 ADDR OF TBUILD PARM LIST
          LA
                R1, TBL PARM
                                                                                09420000
          STM
                R5.R6.DSNBEG
                                                 STORE TBUILD PARAMETERS
                                                                                09440000
          LA
                R13, REGSAVE
                                                                                09460000
                R15, TBLVCON
                                                                                09480000
          RAIR
                                                 BRANCH TOLEFOSTBL
                R14.R15
                                                                                09500000
                                                                                09520000
                                                                                09540000
                UPON RETURN FROM IEFDSTBL, RI CONTAINS ADDR-8 OF A
                                                                                09560000
                4 BYTE AREA CONTAINING THE ADDR OF A 4 BYTE AREA
                                                                                09580000
                WHICH CONTAINS:
                                                                                09600000
                           BYTE O-X'80' IF SHARED SRR
X'00' IF EXCLUSIVE SRR
                                                                                09620000
                                                                                09640000
                            BYTE 1+2-NOT USED
                                                                                09660000
                            BYTE 3-CONTAINS ZERO IF DSNAME INTRODUCED TO
                                                                                09680000
                                   IEFOSTBL WAS NEW
                                                                                09700000
                                                                                09720000
          BCTR
                R5,R0
                                                                                09740000
          BCTR
                                            DECREMENT R5 BY 2
                R5,R0
                                                                                09760000
                R1,8(R1)
                                                 LOAD ADDR OF 4BYTE BUD
                                                                                09780000
                                                 TEST FOR NEW DSNAME
          ΠC
                3(1,R1),3(R1)
                                                                                09800000
                                                BRANCH IF TRUE UPDATE E/S ATTRIBUTE
          ΒZ
                SD061110
                                                                                09820000
          NC
                0(1,R1),0(R5)
                                                                                09840000
                SD061130
                                                                                09860000
                                                 STORE 1ST E/S ATTRIBUTE 09880000
CHANGE DSNAME STATUS TO 0LD 09900000
SD061110 MVC
                0(1,R1),0(R5)
          MVI
                3(R1),X'01'
                R3, LENGTH
SD061120 LH
                                                *R3 WILL CONTAIN SPACE
                                                                                09920000
          LA
                R3,2(R3)
                                                NEEDED IN OUTPUT BLOCK
                                                                                09940000
          LA
                R7, DEND
                                               *R7 WILL CONTAIN REMAINING
                                                                                09960000
          SR
                R7,R2
                                                 SPACE
                                                                                09980000
          CLR
                R3,R7
                                                                                10000000
                                                 BRANCH IF NO SPACE
          BH
                SD061170
                                                                                10020000
          BCTR
                R3,RU
                                                 SUB 1 FROM LENGTH(EXECUTE
                                                                                10040000
                                                 INSTRUCTION REQUIRES ONE
                                                                                10060000
                                                 LESS THAN ACTUAL LENGTH
                                                                                10080000
          ΕX
                R3,SD061140
                                                 MOVE DSNAME TO OUTPUT AREA
                                                                                10100000
          LA
                R2,1(R2,R3)
                                                 INDEX R2 TO NEXT OUTPUT REC 10120000
                R3, LENGTH
          LH
                                                 INCREASE DSNAME CHAR COUNT
                                                                                10140000
                R3,0CHAR
                                                 BY LENGTH OF LAST DSNAME
                                                                                10160000
          Δ
          ST
                R3, OCHAR
                                                                                10180000
                R3,OCNT
                                                 INCREASE DSNAME COUNT BY 1
          :.H
                                                                                10200000
          ΙΔ
                R3,1(R3)
                                                                                10220000
          STH
                R3,0CNT
                                                                                10240000
SD061130 LA
                R7,172(R4)
                                                 TEST FOR ANOTHER POSSIBLE
                                                                                10260000
         CLR
                R6,R7
                                                RECORD IN BLOCK
                                                                                10280000
                                                 BRANCH IF NO POSSIBILITY
          BH
                SD061150
                                                                                10300000
                R5+1(R6)
                                                 R5-ADDR OF NEXT RECORD
          LA
                                                                                10320000
                50061100
                                                                                10340000
                                                OBJECT OF EX INSTRUCTION END OF DSNAME END TABLE IF
SD061140 MVC
                0(0,R2),0(R5)
                                                                                10360000
SD061150 OC
                ILTTR, ILTTR
                                                                                10380000
          ΒZ
                SD061160
                                                 LAST TTR FIELD IS ZERO
                                                                                10400000
          MVC
                QTTR.ILTTR
                                                 MOVE NEXT TTR TO EXT PARM
                                                                                10420000
                                                 AREA
                                                                                10440000
                SD061070
                                                                                10460000
SD061160 MVI
                TESTEOD, X'FF'
                                                SET EN: OF DATA INDICATOR
                                                                                10480000
```

```
CHECK FOR INSERTION OF TWO
SD061170 LA
                R7.0END-2
                                                                             10500000
                                                                             10520000
         ÜLK
                KZ+K1
                                               ZEROS AT END OF BLOCK
                SD061180
                                                                             10540000
         вн
                0(2,R2),0(R2)
                                               INSERT ZEROS
                                                                             10560000
         XC
SD061180 LA
                                               ADDR OF OUTPUT AREA
                                                                             10580000
                R3,UCTIK
                                               STORE ADDR IN EXT PARM AREA 10500000
STORE TTR IN EXT PARM AREA 10620000
                R3,0EXPARM
         ST
         MVC
                QTTR.TTRBUF1
                                               CURRENT TTR FIELD IN OUTPUT 10640000
         MVC
                OCTTR.OTTR
                                               INDICATE WRITE TO OMGR
         MVI
                QMPOP,X'03'
                                                                             10660000
                                               INDICATE ONE REC TO BE READ 10680000
         MVI
                QMPCL ,X '01'
                R13, REGSAVE
                                               POINTER TO SAVE AREA
         LΑ
                                                                             10700000
                R1,R9
                                               POINTER TO SMPA
                                                                             10720000
         LR
                R15, IEFQMRD
                                                                             10740000
                                               BRANCH TO QMANAGER
         BALR
                R14,R15
                                                                             10760000
         LTR
                R15.R15
                           ANY NON-ZERO COND CODE
                                                                         099 10770019
         ΒZ
                OKRET1
                          NO - CONT PROCESSING
                                                                         099 10780019
                                                                         099 10790019
                          QMGR I/O ERRORS ENTER HERE
         EQU
                                                                         099 10800019
BADIO
                                                                         099 10810019
******* 1/0 ERR OR
                                                                             10860000
                R1,X'080'
                                                                             10880000
                R1.12
                                                                             10900000
         SLA
         ABEND (1), DUMP
                                                                             10920000
OKRET1
         EQU
                                                                             10940000
                OLTIR+OCTTR
                                               SETUP OLTTR FOR NEXT WRITE
                                                                             10960000
         MVC
         MVC
                TTRBUF1,TTRBUF2
                                               PUT NEXT TTR IN BUFFER 1
                                                                             10980000
                TTRBUF2,TTRBUF2
                                               CLEAR TTR BUFFER 2
         XC
                                                                             11000000
                                               TEST FOR END OF DATA
         CL 1
                TESTEOD, X'FF'
                                                                             11020000
         ΒE
                SD061190
                                                                             11040000
                R2.OSTART
                                               ADDR OF 1ST GUTPUT RECORD
                                                                             11060000
         LA
                SD061120
                                                                             11080000
         В
                                                                             11100000
* PREPARE FOR ENTRY TO IEFDSLST
                                                                             11120000
TBLVCON DC
                V(IEFDSTBL)
                                               TBUILD
                                                                             11140000
                V(IEFDSLST)
LSTVCON
         DC
                                               TSTRIP
                                                                             11160000
                C'SYSDSN '
                                               ENQ MAJ RESOURCE NAME
                                                                             11180000
MAJNAME
         DC
                                                                             11200000
SD061190 MVC
                CHARSAV(6), DCHAR
                                               S AVE DSNAME COUNTS
                                                                             11220000
                                               STORE TTR FOR USE IN
                JCTDETDA(3),QTTR
                                                                             11240000
         MVC
                                               IEFSD166 DEQ FUNCTION
                                                                             11260000
         LR
                R1,R4
                                               FREE 1/D AREAS
                                                                             11280000
         FREEMAIN R.LV=352.A=(1)
                                                                              11300000
                                                                             11320000
  SETUP PARAMETERS FOR IEFDSLST AND GET CORE FOR ENO PARM LIST
                                                                             11340000
                                                                             11360000
                R3,12(0,0)
                                               DETERMINE CORE NEEDED FOR
         LA
                                                                             11380000
                R3, CNTSAV
                                               END PARM LIST
         MH
                                                                             11400000
         Δ
                R3, CHARSAV
                                                                             11420000
         LA
                R3.8(R3)
                                                                             11440000
         LR
                R0.R3
                                               LENGTH OF END PARM LIST
                                                                             11460000
                R2,255(0,0)
         LA
                                               SUBPOOL NO. 255
                                                                             11480000
         SLL
                R2,24
                                               PLACE IN HIGH ORDER BYTE
                                                                              11500000
                                               OF LENGTH REGISTER
         CIR
                RO, R2
                                                                             11520000
         ST
                RO, LCTPARM2
                                               SAVE FOR USE IN IEFSD102
                                                                             11540000
                                               END PARM LIST
         GETMAIN R, LV=(0)
                                                                             11560000
                                               POINTER TO END PARM LIST
         ST
                R1.DSNBEG
                                                                             11580000
                                               AREA FOR IEFDSLST
                                                                             11600000
```

```
1ST BBYTES ARE END MAJ NAME 11620000
        MVC
              O(8,1), MAJNAME
              R3.CHARSAV
                                                                      .11640000
        ΔR
              R3,R1
                                                                       11660000
              R3, DSNEND
                                           ADDR OF 1ST DSNAME ENTRY
                                                                      11680000
        ST
        ST
              R1.LCTPARM1
                                           POINTER TO ENQ PARM LIST
                                                                       11700000
                                           FOR USE IN IEFSD102
                                                                       11720000
                                           ADDR OF IEFDSLST PARM LIST
        LA
              R1, TBLPARM
                                                                      11740000
        LA
              R13, REGSAVE
                                           POINTER TO SAVE AREA
                                                                       11760000
              R15, LSTVCON
                                                                       11780000
        HALR
              R14,R15
                                           BRANCH TO IEEDSUST
                                                                       11800000
11840000
* UPON RETURN FROM IEFOSLST ROUTINE, THE ENG PARAMETER LIST HAS BEEN
                                                                       11860000
 BUILT FOR USE IN 1EFSD102. A POINTER TO IT IS STORED IN
                                                                       11880000
 LCTPARM1 AND ITS LENGTH AND SUBPOOL ARE STORED IN LCTPARM2.
                                                                       11900000
* IEFDSLST BUILDS THE ENQUEUE PARAMETER LIST TO ISSUE AN
                                                               A21364 11903019
* UNCONDITIONAL ENQUEUE. CODE CHANGES MADE TO IFFSD102 FOR APAR
                                                               A21364 11906019
* 21364 REQUIRE THAT A CONDITIONAL ENQUEUE BE ISSUED. THE * FOLLOWING CODE CHANGES THE ENQUEUE PARMS TO ISSUE A
                                                               A21364 11909019
                                                               A21364 11912019
                                                               A21364 11915019
* CONDITIONAL ENQUEUE.
                                                                       11920000
ADDRESS Q PARM LIST
                                                               A21364 11941019
        L
              R1,LCTPARM1
                                       ADDRESS 1ST ENTRY
              R1, D8(R1)
                                                               A21364 11942019
        LA
        USING QLIST,R1
                                       ENO LIST BASE
                                                               A21364 11943019
SD061193 EQU
                                       SETUP FOR COND END
                                                               A21364 11944019
                                                                M4008 11945019
              QATT, SYSTEM+USE
                                       ENO SYSTEM, RET = USE
        O.I.
        CLI
              QLSTEND, LSTEND
                                       END OF LIST?
                                                               A21364 11946019
                                                               A21364 11947019
        BE
              SD061196
                                       YES - BRANCH
                                       INCREMENT TO NEXT ENTRY
                                                               A21364 11948019
        LA
              R1+QENTLGTH(R1)
              SD061193
                                       PROCESS NEXT ENTRY
                                                               A21364 11949019
SD061196 EQU
                                       CONTINUE PROCESSING
                                                               A21364 11950019
                                           FREE TREE
              R1,TREE
                                                                       11960000
        LA
        FREEMAIN R.LV=8.A=(1)
                                                                       11980000
                                                                       12000000
                                       LCT ADDRESS
ADDRESS OF 1EFSD062
SD061200 LR
              R1.R10
                                                                       12020000
              R15,1EFSD62V
                                                                       12040000
        BR
              R15
                                       GO TO LEFSD062
                                                                       12060000
IEFSD60V DC
              V(IEFSD060)
                                                                       12070015
              V(IEFSD062)
IEFSD62V DC
                                                                       12080000
IEFOMRD DC
              V(IEFOMRAW)
                                                                       12100000
              V(IEFQMDQ2)
IEFOMVCN DC
                                                                       12120000
DSOVCON DC
              V(IEFDSOSL)
                             DSD SELECT DSOCB ROUTINE
                                                                  099 12130019
************************
                                                                      12140000
QIOBA
        EQU
                                                                       12160000
              20
QIOBB
        EQU
                                                                       12180000
QIOBOCB
        EQU
                                       DCB ADDR OFFSET FROM ECB/108
              24
                                                                       12200000
        EQU
              44
DIDBC
                                                                       12220000
QIOBD
        EQU
              52
                                                                       12240000
QMCOP
        EQU
              X ' 31 '
                                                                       12260000
DISPLACE EQU
              760
        EΩU
ZERO
                                  DISPLACEMENT
                                                                  1272 12260619
ONE
        EOU
                                  DISPLACEMENT
                                                                  1272 12261219
D3
        EQU
                                  DISPLACEMENT
                                                                  1254 12261819
D4
        EQU
                                  DISPLACEMENT
                                                                  1272 12262419
D6
        EQU
                                  DISPLACEMENT
                                                                  1272 12263019
D7
        EQU
                                  DISPLACEMENT
                                                                  1272 12263619
```

```
1272 12264219
D8
        FQU
                                DISPLACEMENT
                                                            A27668 12264319
00
        FQU
             O
                                                            A27668 12264419
D1
        EQU
                                DISPLACEMENT
                                                             M4339 12264519
016
        FOU
              16
WIPLEN
                                WTPCB LENGTH
                                                              1254 12264819
        FOIL
             16
BLANK
              X1401
                                USED TO PAD WITH BLANKS
                                                              1272 12265419
        EQU
FOXEOX
        FOU
              XIFFI
                                INSERT UNIQUE NONZERO ID
                                                              1272 12766019
                                                              1272 12266619
10FRR
        FQU
                                I/O ERROR RETURN CODE
                                                              1254 12267219
        DS
             OF
                                                              1254 12267819
M253
             X*FD0000001
                                MASK FOR SP253
        DC.
                                                              1272 12268419
HOUR 24
        DC
              AL3(8640000)
        EJECT
                                                                   12270017
             QMECH.RI,QMECH.,,,MF=L
        XDAP
                                       ECB/INB BASIC PATTERN
                                                                   12280000
OMPTE
        FOU
                                    END OF PATTERN INB
                                                                   12300000
              OMPTE-OMECH
01081
        EQU
                                    LENGTH OF PATTERN IOB
                                                                   12320000
                                                                   12340000
OMNOVOON DO
              V(IFFQMUNC)
                                                                   12360000
POSTBIT
        EQU
              X1401
                                                                   12380000
TCORE
        EQU
              253
                                                                   12390017
        EJECT
* * 12391819
          ENQ/DEQ MACRO PARAMETER LIST
IEFSD61A ENQ
              (IEFSQCBS, IEFQ6QCB, E, 2, SYSTEM), MF=L
                                                 ENG/DEG PARM LIST 12393619
                                                                   12394519
TEFSOCHS DC
              C'SYSIEFSD'
                                     MAJOR NAME
             C'06'
IFFO60CB DC
                                     MINOR NAME STOP INIT.
                                                                   12395419
                                               ENG/DEG PARM LIST
              (IEFSQCBS, IEFQ2QCB, E, 2, SYSTEM), MF=L
                                                                   12396319
TEFSD61B ENQ
             15013
IEFOZOCA DC
                                         MINOR NAME ASGN-DEL O MNGR 12397219
              (IEFSCOBS . IEFBATRM . E . 5 . SYSTEM) . MF=L
                                                                   12398119
IEFSD61C ENQ
TEFSGCBS DC
              C'SYSJMPCH'
                                                                   12399019
              C * BATRM *
                                                                   12399919
IEFBATRM DC
STOPBIT
        EQU
              X*10*
                                                                   12400819
                                ADDR OF MESSAGE CSECT
                                                              0847 12401719
              A ( OMTMSG)
MSGAD
        DC
ENG. DEG PARAMETER LIST
                                                            A21364 12401919
       DSECT
QLIST
                                     ANY NUMBER OF ENTRIES
                                                            A21364 12402019
                                     EACH ENTRY IS DESCRIBED
                                                            A21364 12402119
                                     AS FOLLOWS:
                                                            A21364 12402219
QUSTEND
        DC
              X1001
                                     END OF LIST INDICATOR
                                                            A21364 12402319
              XIFFI
                                     FF INDICATES END OF LIST A21364 12402419
LSTEND
        FOU
                                                            A21364 12402519
QMINLGTH DC
              X1001
                                     MINOR NAME LENGTH
                                     ENQ OR DEG ATTRIBUTES
                                                            A21364 12402619
              B'000000001
QATT
        DC
                                     SYSTEM IS ISSUING NO(DQ) A21364 12402719
              X1401
SYSTEM
        EQU
                                     RET = HAVE
                                                            A21364 12402819
HAVE
        EQU
              X 1 01 1
                                     RET = USE
                                                            A21364 12402919
              X1031
USE
        EQU
QRETCDE
              X1001
                                     RETURN CODE
                                                            A21364 12403019
        ĐC
        DC.
              41 *1
                                     ADDRESS OF MAJOR NAME
                                                            A21364 12403119
AULAMO
                                                            A21364 12403219
                                     ADDRESS OF MINOR NAME
OMINOR
        DC
              A(*)
                                     LENGTH OF ONE ENTRY
QENTLGTH EQU
                                                            A21364 12403319
             *-QLSTEND
0847 12403519
        CSECT
OMTMSG
                                                              0847 12404419
        DS
        PRINT DATA
                                                            A27668 12404519
              'IEF4291 INITIATOR '''' WAITING FOR WORK', MF=L,
WT0429
                                                            A27668*12404619
              ROUTCDE=(2),DESC=(4)
                                                            A27668 12404719
                                                            A27668 12404819
        PRINT NODATA
                            LENGTH OF ENTIRE WTO
                                                            A27668 12404919
WT0429EN EQU
              *-WT0429
              WTO429EN+D8 SIZE OF WTO AND INIT ID
                                                            A2766B 12405019
WT0429EX EQU
```

```
AZ7668 17405119
    NOTE
                IF WTO 'WT0429' CHANGES, CHECK EQU 'WT0429A' TO
                                                                   A297668 12405219
                ASSURE ITS VALUE IS STILL CORRECT
                                                                   A27668 12405319
                                                                   A27668 12405419
        EQU
                   NUMBER OF BYTES IN 1ST HALF OF WTO 'WT0429'
                                                                   A27668 12405519
WT0429A
                   UP TO AND INCLUDING THE 1ST QUOTE OF
                                                                   A27668 12405619
                                    INCLUDE 4 BYTE HEADER IN CT
                   GENERATED TEXT.
                                                                   A27668 12405719
                                                                   A27668 12405819
                                     LNG OF 2ND HALF OF WTO MSG
                                                                   A27668 12405919
WT0429B
        FOLI
               WT0429EN-WT0429A
                                  STARTING WITH 2ND QUOTE
                                                                   A27668 12406019
                                                                   A27668 12406119
                                  INCLUDING MCS DATA.
****************************
                                                                     0847 12407119
                                                                          12408019
                                                                      099 12408919
         EJECT
IEFDSOSL CSECT
                                                                      099
                                                                          12409819
                                                                      N99 12410719
              * THIS DIRECT SYSOUT (D'SO) ROUTINE FIRST
                                                                      099 12411619
                BUILDS A SYSOUT ENTRY BLOCK OF ALL SYSOUT
                                                                      099 12412519
                CLASSES THIS JOB HAS CALLED FOR IN ITS JCL
                                                                      099
                                                                          12413419
                FROM THE SYSOUT CLASS DIRECTORY (SCD). THIS
                                                                      N99 12414319
                BLOCK WILL BE SEARCHED LATER IN THE ROUTINE.
                                                                      099 12415219
                THE NEXT FUNCTION IS TO SEARCH THE DIRECT
                                                                      099
                                                                          12416119
                SYSOUT CONTROL BLOCK (DSOCB) CHAIN TESTING
                                                                      099 12417019
                EACH DSOCB TO SEE IF IT'S ELIGIBLE FOR THIS
                                                                      099 12417919
                JOB. THE DEQUEUED JOB'S JOB CLASS AND THE
                                                                      099 12418819
                SYSOUT ENTRY BLOCK WILL BE USED TO SELECT
                                                                      099 12419719
                THE DSDCB'S. SELECTION IS INDICATED BY PLACING THE PROBLEM PROGRAMS STORAGE PROTECT
                                                                      099
                                                                          12420619
                                                                      099 12421519
                KEY FROM THE JOBS JCT (JCTJSRNO) INTO THE
                                                                      1199
                                                                          12422419
                SELECTED DSOCB. IF ONE OR MORE DSOCBS WERE
                                                                      099 12423319
                SELECTED BIT 6 IN JCTRSW2 (JCT) WILL BE TURNED ON TOD99 12424219
                INDICATE TO OTHER DSO ROUTINES THAT THERE ARE
                                                                      099 12425119
                ALLOCATED DSOCB'S FOR THE JOB.
                                                                      099
                                                                          12426019
                                                                      099 12426919
               REGISTER ONE POINTS TO LOT/LCT AREA
                                                                      099 12427819
               LCTPARMI CONTAINS ADR OF OMER READ/WRITE ROUTINE
                                                                      099
                                                                          12428719
               EPA POINTED TO BY THE OMPCL IN THE INPUT OMPA HAS
                                                                      099
               BEEN INITILIZED WITH THE CORE ADD OF THE READ IN SCD. 099 12430519
                                                                      099 12431419
         SAVE
              (14,12)
                              SAVE CALLERS REGS
                                                                      099 12432319
                                                                      099 12433219
                               ADR OF LCT/LOT AREA
                                                                      099 12434119
         I R
               R11,R1
         USING IEFLOT, R11
                                                                      099
                                                                          12435019
                                                                      099 12435919
         BALR
               R12,R0
                               SET
                                      MODULE BASE REG
                                                                      099 12436819
         USING *.R12
                                                                      099 12437719
               DSOGO
         В
                                                                      099
                                                                          12438619
         DC
               X'CCCC'
                                                                      099 12439519
         DC.
               C'IEFDSOSL'
                                                                      099 12440419
         DC
               X'06201969'
                                                                      099
                                                                          12441319
         DC
               XICCCCI
                                                                      099 12442219
DSOGO
         DS
               OH
                                                                      099 12443119
                                                                      099 12444019
         LA
               RO, SAVARASZ+SYSIZE SIZE OF REG SAVEAREA
                                                                      099
                                                                          12444919
                                    AND SYSOUT BLOCK AREA
                                                                      099 12445819
                                    FOR GETMAIN
                                                                      099 12446719
         GETMAIN R.LV=(0)
                               GET REG SAVE AND SYSOUT BLOCK AREA
                                                                      099 12447619
```

```
099 12448519
         ХC
               NO(SAVARASZ+SYSIZF.R1), NO(R1) CLEAR ENTIRE AREA
                                                                        099 12449419
         ST
               R13,N4(,R1)
                                SAVE CALLERS REG SAVEAREA ADR
                                                                        099 12450319
         ST
               R1, N8(,R13)
                                MY REG SAVEAREA ADR INTO CALLERS
                                                                        099 12451219
                               REG SAVEAREA
                                                                        099 12452119
               R13,R1
                          MY REG SAVEAREA AND SYSOUT BLOCK AREA
                                                                        П99 12453019
         USING SAVESYS.R13
                               SET HASE
                                                                        099 12453919
                                                                        099 12454819
                               JCT CORE ADR
               R9, LCTJCTAD
                                                                        099 12455719
         USING TEFJCT.R9
                                SET BASE
                                                                        099 12456619
                                                                        099 12457519
         LΑ
               R10.0MGR1
                               ADR DE INPUT OMPA
                                                                        099
                                                                            12458419
         USING IMPARAMS.RIO
                                SET BASE
                                                                        099 12459319
                                                                        099 12460219
                                                                        D99 12461119
         L
               R7. OMPCL OMGR EXTERNAL PARM ADR
                                                                        099
                                                                           12462019
               R7, NO(+R7) ADR OF SCD AREA USED BY CALLING PROG
                                                                        099 12462919
                               SET BASE FOR SCD
         USING SCDAREA.R7
                                                                        Π99 12463819
               SCDPAD. HEXFE
         IVM
                               CONTINUATION FLAG IN 1ST SCD
                                                                        099
                                                                            12464719
                               AFTER PROBABLE 24TH ENTRY
                                                                        099 12465619
         DROP
               R 7
                                                                        099 12466519
                                                                        099 12467419
        * * * * * BUILD SYSOUT ENTRY BLOCK FROM SCD
                                                                       D99 12468319
                                                                       099 12469219
         1 R
               R2,R7
                                INDEX REG FOR SCD
                                                                       099 12470119
         USING SCDAREA, R2
                               SET SCO BASE
                                                                       099
                                                                           12471019
               R4, SYSCLS
                               SYSOUT ENTRY BLOCK AREA
                                                                       Π99 12471919
         USING SYSCLS.R4
                               SET SYSOUT BLOCK BASE
                                                                       099 12472819
         LA
               R3.SYSNO
                               MAX ENTRIES LOOP REG
                                                                        099 12473719
                                                                        099 12474619
DS02A
         EQU
                                                                        099 12475519
         TM
               SCDCLS, HEXFF
                               TEST FOR END OF ENTRIES/END OF
                                                                       099 12476419
                               FIRST SCO/SYSOUT CLASS ENTRY
                                                                       099 12477319
         BO
               08020
                          ALL ONES
                                   - END OF FIRST SCD, READ IN
                                                                       099 12478219
                                      NEXT SCD IF ONE AND CONTINUE
                                                                       099 12479119
         ΒZ
               0503
                         ALL ZERO - END OF ENTRIES IN SCD
                                                                        099 12480019
                                                                        099 12480919
                          MIXED - SAVE SYSOUT CLASS
                                                                        099 12481819
                                                                        099 12482719
         MVC
               SYSCLS, SCOCLS SAVE SCO SYSOUT CLASS
                                                                       099
                                                                           12483619
                                                                       099 12484519
               R2,SCDENTRY(,R2)
         LΔ
                                     INCREASE SCD BASE REG
                                                                       N99 12485419
         LA
               R4, SYSENTRY(,R4)
                                     INCREASE SYSOUT BLOCK BASE
                                                                        099 12486319
         BCT
               R3.DSD2A
                                     LOOP LIMITER
                                                                       099 12487219
               DS (73
                          END OF ENTRIES IN SCD
                                                                        099 12488119
         DROP
               R2 . R4
                                                                       099 12489019
                                                                       099 12489919
          * * * * READ IN NEXT SCD IF ONE
                                                                        N99 12490819
                                                                       099 12491719
         EQU
DS02C
                                                                       099 12492619
         USING SCDAREA, R7
                               SET SCD BASE
                                                                       099 12493519
         MVI
               SCDNXT+N3,NO
                               ZERO L/O OF TTR BEFORE TEST
                                                                       099 12494419
               R2.SCDNXT
                               GET TTR OF NEXT SCD
                                                                       099 12495319
         DRIDE
               R7
                                                                       099 12496219
         LTR
               R2,R2
                               IS THERE A TTR
                                                                       099 12497119
         ΒZ
               0803
                          NO - END OF ENTRIES IN SCD
                                                                       099 12498019
                                                                       099 12498919
```

```
YES - READ IN NEXT SCD
                                                                        099 12499819
                R1 , QMPCL
                          QMGR EXTERNAL PARM ADR
                                                                        099112500719
         ST
                R2.N4(.R1) TTR OF SCD TO BE READ
                                                                        099 12501619
         ST
                R7:NO(,R1) READ IN AREA FOR NEXT SCD (SAME AS
                                                                        000 12502510
                          1ST SCD)
                                                                        099 12503419
         MVI
                QMPOP , QMREAD
                               READ FUNCTION
                                                                        099 12504319
                R6 . OMGRRW
         BAL
                                    GO TO OMGR READ WRITE ROUTINE
                                                                        099 12505219
         I.R
                R2,R7
                                          SCO AREA
                                                                        099 12506119
                               CONTINUE PROCESSING WITH THIS SCD
         В
                DSO2A
                                                                        099 12507019
OMGRRW
         EΩU
                               OMGR READ WRITE INTERFACE
                                                                        099 12507919
                QMPCL .HEXO1
         MVY
                               READ/WRITE ONE RECORD
                                                                        099 12508819
         L.R
                               ADR OF DMGR1
                R1.R10
                                                                        N99 12509719
                               R13 POINTS TO SAVEAREA
                                                                        N99 12510619
                R15.LCTPARM1
                                ADR OF OMGR READ/WRITE ROUTINE
                                                                        099 12511519
         BALR
                               GO TO OMGR
               R14,R15
                                                                        099 12512419
                                                                        099 12513319
         LTR
                R15,R15
                          OMGR ERROR TEST
                                                                        099 12514219
         BNZ
                QMGRIO
                          QMGR I/O ERROR
                                                                        099 12515119
         BR
                               RETURN TO CALLER
                                                                        099 12516019
                                                                        099 12516919
                                                                        099 12517819
*
                                                                        099 12518719
                                                                        099 12519619
DS03
         EQU
                                                                        099 12520519
         LA
                RI.SYSNO
                          MAX ENTRIES IN SYSOUT BLOCK
                                                                        099 12521419
         SR
                          LOOP COUNT FROM MAX ENTRIES
               R1,R3
                                                                        099 12522319
                          GIVES NUMBER OF SYSOUT CLASSES AVAILABLE
                                                                        099 12523219
         STC
                R1.SYSENTS
                               SAVE NUMBER OF SYSOUT CLASSES
                                                                        099 12524119
                                                                        099 12525019
                * LOOP THROUGH DSOCR'S USING THE DEQUEUED JOB'S
                                                                        099 12525919
                   JOB CLASS AS THE FIRST TEST IN SELECTING DSOCBS
                                                                        099 12526819
                                                                        Π99 12527719
               R7.CVTPTR
                               LOCATION OF CVT
                                                                        N99 12528619
         USING CVTDSECT, R7
                               CVT BASE
                                                                        099 12529519
               R7,CVTMSER
                               ADR OF MASTER SCH DATA AREA
                                                                        099 12530419
         USING BASE, R7
                                                                        099 12531319
                               M/S BASE REG
                                                                        099 12532219
         ENQ
                MF=(E.DSOCBNQ)
                                    END ON DSDCB CHAIN
                                                                        099 12533119
                                                                        099 12534019
               R7, BADSO FIRST DSOCB ADR
                                                                        099 12534919
         USING IEFDSOCB.R7
                               SET BASE FOR DSOCB
                                                                        099 12535819
                                                                        099 12536719
               R4,L'DSOJCLS
                               LENGTH OF 'DSOJCLS' FIELD IN DSOCB.
         LA
                                                                        099 12537619
                               REG WILL ALSO BE USED AS A SWITCH
                                                                        099 12538519
                                                                        N99 12539419
DS03B
         EQU
                                                                        099 12540319
         LA
               R7,NO(,R7)
                               CLEAR H/O
                                                                        099 12541219
         LTR
               R7, R7
                               DSDCB ADR ZERO
                                                                        099 12542119
                               YES - DO END OF DSOCB PROCESSING
         BZ
               0505
                                                                        099 12543019
                               NO - CHECK FOR DSOCB ID
         CLI
               DSOID. HEXFD
                                                                        099 12543919
         BNE
               DSO3A
                               WRONG ID, GET NEXT DSDCB
                                                                        099 12544819
                               IS THIS DSOCB IN USE
         TM
               DSOKEY, HEXFF
                                                                        099 12545719
         BNZ
               DSO3A
                               YES - GET NEXT DSOCB
                                                                        099 12546619
                                    NO - IS DSOCB FROZEN
         TM
               DSOIND1. DSONOOP
                                                                        099 12547519
         BNZ
                          YES - GET NEXT DSOCB
               DSD3A
                                                                        099 12548419
         TM
               DSOIND2, DSOSM
                               IS A STOP/MODIFY PENDING
                                                                        099 12549319
         BNZ
               DSO3A
                               YES - THEN BYPASS THIS DSOCB
                                                                        099 12550219
```

```
099 12551119
                               NO - SET REGS TO EXAMINE DSDCB
                                                                       099 12552019
                               JOB CLASSES
                               FLIGIBLE JOB CLASSES AREA
                                                                       UYY 12552919
               R2+DSOJCLS
                                                                       099 12553819
         USING DSOJCLS.RZ
                               SET BASE
                               LOOP LIMIT - R4 WILL BE NEG IF
                                                                       099 12554719
         LPR
               R3.84
                               ANY DSOCH'S HAVE BEEN SELECTED.
                                                                       099 12555619
                                                                       1199 12556519
                               BUT VALUE REMAINS UNCHANGED
                                                                       099 12557419
                                                                       099 12558319 099 12559219
08030
         FQU
                               END OF ENTRIES TEST
               DSOJCLS,NO
         CLI
                                                                        099 12560119
                               YES - GET NEXT DSOCB
         BF
               DS03∆
                               JOB'S JOB CLASS VS DSOCR JOB CLASSES
                                                                       099 12561019
         CLC
                DMTPY.DSDJCLS
                                                                        099 12561919
                          A MATCH - GO TEST SYSOUT CLASS
         RE
                DSD4
                                                                        099 12562819
                                                                        099 12563719
                R2.N1(,R2)
                               INCREASE REG BY ONE
         LA
                               LOOP AGAIN IF MORE ENTRIES
                                                                        N99 12564619
         RCT
                R3.0S03C
                                                                        099 12565519
                                                                        099 12566419
         DROP
                R2
                                                                        099 12567319
                                                                        N99 12568219
DSD3A
         FQU
                R7,DSONXT
                               GET NEXT DSOCB ADR
                                                                        099 12569119
                               TEST JOB CLASSES IN NEXT DSDCB
                                                                        099 12570019
                DS03B
                                                                        099 12570919
                                                                        099 12571819
                                                                        099 12572719
              * * A JOB CLASS MATCH HAS OCCURRED SO NOW MATCH THE
                   DSOCH'S SYSOUT CLASS TO THE SYSOUT BLOCK ENTRIES
                                                                        099
                                                                           12573619
                                                                        П99 12574519
                                                                        099 12575419
0504
         EQU
                                                                        099
                                                                           12576319
                                START OF SYSOUT BLOCK TO BE SCANNED
                R2.SYSCLS
         LA
                                                                        099 12577219
                                SET BASE
         USING SYSCLS.R2
                                                                        D99 12578119
                                CLEAR REG
          SR
                R3,R3
                                NUMBER OF ENTRIES IN SYSOUT BLOCK
                                                                        099 12579019
                R3 + SYSENTS
          IC
                                                                        П99 12579919
                                                                        099 12580819
DS04A
          EQU
                                                                        099 12581719
                DSDSCLS. SYSCLS TEST SYSOUT CLASS
         CLC
                                                                        099 12582619
                                EQUAL - MARK DSOCB ALLOCATED
                DS:04B
          BE
                                    UNEQUAL - INCREASE INDEX REG
                                                                        099 12583519
                R2.SYSENTRY(.R2)
          LA
                                LOOP AGAIN IF MORE ENTRIES
                                                                        099 12584419
                R3.DS04A
          BCT
                                END OF ENTRIES - GET NEXT DSOCB
                                                                        099 12585319
                DSU3A
                                                                        099 12586219
                                                                        099 12587119
                SYSCLS(NO) . SYSCLS+SYSENTRY
                                               TO SHIFT SYSDUT
DSDEX
          MVC
                                          BLOCK UP 1 BYTE
                                                                        N99 12588019
                                          MOVE INCLUDES ONE BYTE
                                                                        099 12588919
                                          PAD AT END OF BLOCK
                                                                        099 12589819
                                                                        D99 12590719
          DROP
                                                                        099 12591619
                * JOB CLASS AND SYSOUT CLASS MATCH HAS OCCURRED
                                                                        N99 12592519
                                                                        099 12593419
                    SO MARK DSDCB ALLOCATED FOR THIS JOB AND
                                                                        099 12594319
                    STRIKE THE SYSOUT ENTRY FROM THE SYSOUT
                    BLOCK TO PREVENT SELECTION OF ANOTHER POSSIBLE
                                                                        099 12595219
                                                                        099 12596119
                   DSOCH OF SAME JOB AND SYSOUT CLASS.
                                                                        099
                                                                            12597019
                                                                        099 12597919
          EQU
DSO4B
                                     MOVE PROTECT KEY FROM JCT
                                                                        D99 12598819
                DSOKEY , JCTJ SRND
          MVC
                                     INTO THE DSOCB TO MARK
                                                                        099 12599719
                                                                        099 12600619
                                     IT ALLOCATED (XXXX0000)
                                NEG REG INDICATES ONE OR MORE
                                                                        099 12601519
          LNR
                R4, R4
```

```
N99 12602410
                               DSDCB'S HAVE BEEN SELECTED
                                    IS THE MSGCLASS EQUAL TO
                                                                       099 12603319
         CLC
               DSGSCLS, JCTJMGPO
                                    THE DSOCR'S SYSOUT CLASS
                                                                       099 12604219
                               NO - CONT PROCESSING
         BNE
               DSD4C
                                                                       099 12605119
         \mathbf{10}
               DSOIND1.DSOMSGCL YESTURN ON MSGCLASS BIT IN DSOCH
                                                                       099 12606019
                                                                       D99 12606919
              * * STRIKE SYSOUT CLASS FROM SYSOUT BLOCK
                                                                       099 12607819
                                                                       099 12608719
DS04C
         EQU
                                                                       099 12609619
               R3.SYSCLS+(SYSNO*SYSENTRY)-1 END OF SYSOUT BLOCK
                                                                       099 12610519
         LA
                               TO GET NUMBER OF BYTES TO BE MOVED
                                                                       099 12611419
         SR
               R3.R2
                               NOTE - A LOW ORDER VALUE ONLY NOW
                                                                       (199 12612319
                                      FXISTS IN R3
                                                                       099 12613219
                               SHIFT SYSOUT BLOCK ENTRIES
         ΕX
               R3,DSUEX
                                                                       П99 12614119
                               LEFT ONE BYTE PLUS PAD BYTE
                                                                       099 12615019
         1 C
               R3.SYSENTS
                               PRESENT NUMBER OF ENTRIES IN BLOCK
                                                                       (199
                                                                           12615919
                               SUBTRACT ONE
                                                                       099 12616819
         BCTR
               R3+R0
               R3, SYSENTS
         STC
                               STORE REVISED COUNT
                                                                       099 12617719
         I.TR
               R3.R3
                               IS COUNT ZERO
                                                                       N99 12618619
                               YES - DO END OF DSOCH PROCESSING
                                                                       099 12619519
         ΒZ
               DS 05
               DS03A
                               NO - GO GET NEXT DSOCK
                                                                       099 12620419
                                                                       099 12621319
OMGR ID
         EQU
                                                                       099 12622219
               R7.R15
                          SAVE CONDITION CODE FROM OMGR
         LR
                                                                       099 12623119
                          DO END OF MODULE PROCESSING
         В
               1 → 05B
                                                                       D99 12624019
                                                                       099
                                                                           12624919
                                                                       099 12625819
                  ALL DSOCB'S HAVE BEEN SCANNED AND TESTED,
                                                                       099 12626719
                   OR ALL SYSOUT ENTRIES IN THE SYSOUT BLOCK
                                                                       099
                                                                           12627619
                   HAVE BEEN PROCESSED.
                                                                       099
                                                                           12628519
                  NOW TEST IF ANY DSOCB'S WERE SELECTED.
                                                                       099 12629419
                   IF YES MARK THE JCT TO INDICATE THIS,
                                                                       (199 12630319
                   RELEASE SAVE AND WORK AREAS AND RETURN
                                                                       099 12631219
                                                                       099 12632119
                   TO CALLER.
                                                                       099 12633019
         EQU
                                                                       П99 12633919
0505
         LTR
               R4.R4
                               TEST IF ANY DSOCH'S WERE SELECTED
                                                                       099
                                                                           12634819
         BP
                               PLUS - NO DSOCB'S SELECTED
                                                                       N99 12635719
               DSDSA
         0I
               JCTRSW2+JCTDS0JB
                                    NEG- ONE OR MORE DSOCB'S WERE
                                                                       099 12636619
                                    SELECTED
                                                                       099 12637519
         EQU
DS 05A
                                                                       N99 12638419
         SR
               R7,R7
                          CLEAR TEMP CONDITION CODE REG
                                                                       099
                                                                           12639319
                                                                       099
                                                                           12640219
         DEQ
               MF=(E,DSDCBNO)
                                    DEO ON DSOCB CHAIN
                                                                       099
                                                                           12641119
                                                                       099 12642019
DSD5B
         EQU
                          ENTER HERE IF PASSING CONDITION CODES
                                                                       Π99 12642919
                               AREA TO BE RELEASED
         LR
               R1,R13
                                                                       099
                                                                           12643819
                               GET CALLER'S SAVEAREA ADR
                                                                       099 12644719
         1
               R13.SVEARA+N4
         ХC
                                         CLEAR MY SAVEAREA
               SVEARA+N8(N4) + SVEARA+N8
                                                                       099 12645619
                                          ADR IN CALLERS
                                                                       099 12646519
                                          SAVEAREA
                                                                       099
                                                                           12647419
         DROP
               R13
                                                                       099 12648319
                                                                       099 12649219
               RO, SAVARASZ+SYSIZE
                                   SIZE OF AREA TO BE RELEASED
                                                                       099 12650119
         FREEMAIN R,LV=(0),A=(1)
                                                                       099 12651019
                                                                       099 12651919
         LR
               R15.R7
                          LOAD ANY CONDITION CODES
                                                                       099 12652819
```

```
RETURN (14,12), RC=(15)
                                    RETURN TO CALLER
                                                                       099 12653719
                                                                       099 12654619
* * * * * * * * * FQUATES
                                                                       099 12655519
                                                                       099 12656419
NO
                                                                       099 12657319
         FOU
               0
NI
         EQU
                                                                       099 12658219
N2
         EQU
                2
                                                                       N99 12659119
N3
         FOU
                3
                                                                       099 12660019
N4
         FQU
                                                                       099 12660919
N 7
         EQU
                                                                       099 12661919
NB
         FQU
                                                                       099 12662719
HEXFF
               XIFFI
                                                                       N99 12663619
         FQU
HEXO1
               X1011
                                                                        099 12664519
         FQU
                                                                        099 12665419
HEXFI)
         EQU
                XIFDI
                                                                        099
                                                                           12666319
* * * * * * * * ENO/DEO FOR DIRECT SYSOUT CONTROL BLOCKS (DSOCB)
                                                                       099 12667219
                                                                        099 12668119
               (DSOCBNOO, DSOCBNOR, E, O5, SYSTEM), MF=L
                                                                        099 12669019
DSOCBNO FNO
                                                                       099
                                                                           12669919
* * * ENG/DEG Q AND R NAMES
                                                                        099 12670819
                                                                        099 12671719
DSITCHNOO DC
               CL8'SYSIFFSD'
                               Q - MAJOR NAME
                                                                        099
                                                                           12672619
                                                                       099 12673519
DSDCHNOR DC
               C+DSDCB+
                               R - MINOR NAME
                                                                           12674419
                                                                       099
                                                                       099 12675319
* * * * * * * * SYSOUT CLASS DIRECTORY (SCD)
                                                                       099 12676219
                                                                       099 12677119
        DSECT
                                                                       099 12678019
SCDAREA
               CL1 SYSDUT CLASS
CL6 Q MGR DATA FOR SYSDUT Q
                                                                       099 12678919
SCOOLS
         DS
                                                                       099 12679819
         DS
SCHENTRY FOU
                *-SCOOLS SIZE OF EACH SYSOUT ENTRY
                                                                       099 12680719
                CL(SCDENTRY*23) 24 ENTRIES IN SCD
                                                                       099 12681619
         DS
SCOPAD
         DS
                CL4 PAD
                                                                       099 12682519
                     TTR OF NEXT SCD
SCONXT
         DS
                                                                        099 12683419
                                                                        099 12684319
   * * * * * * * SYSOUT CLASS HLUCK
                                                                        099 12685219
                                                                       099 12686119
                                                                       099 12687019
SAVESYS
         DSECT
                                                                       099 12687919
SVEARA
         ns
                CL72
                          REG SAVEAREA
SAVARASZ EQU
                *-SVEARA
                               SIZE OF SAVE AREA
                                                                        099 12688819
                CLI NUMBER OF ENTRIES ENTERED IN BLOCK
SYSENTS
                                                                       099 12689719
         DS
SYSCLS
         DS
                CL1 SYSOUT CLASS
                                                                        099 12690619
SYSENTRY EQU
                *-SYSCLS SIZE OF EACH SYSDUT ENTRY
                                                                        099 12691519
SYSNO
         EQU
                    MAX NUMBER OF ENTRIES
                                                                        099 12692419
                                                                        099 12693319
                                                                        099 12694219
                CL(SYSENTRY*(SYSMO-1))
                                          FINISH OUT BLOCK
         DS
                          PAD FOR 'MOVE' TO STRIKE SYSOUT ENTRIES
                                                                        099
         DS
                                                                           12695119
                          FROM THE SYSOUT BLOCK. HEX! 00!
                                                                        099 12696019
                *-SYSENTS
SYSIZE
         EQU
                               TOTAL SIZE OF SYSOUT BLOCK
                                                                        099 12696919
                                                                        099 12697819
                                                                        099 12698719
                                                                        099 12699619
IEFDSOCB DSECT
                                                                        099 12700519
         TEFDSDCB
                                                                        099
                                                                           12701419
         EJECT
RSAR
                                     THIS DSECT IS USED TO MAP ALLOCATE/
                                                                            12710014
         DSECT
SAVEAREA DS
                                     TERMINATE REG SAVE AREAS FOR USE BY
                                                                            12720014
                18F
REMLST
         DS
                2F
                                     THIS MODULE
                                                                            12730014
```

```
NOWRKECH DS
              2F
                                                                      12740014
ECBLST DS
              2 F
                                                                      12750014
WYOSWTCH DS
                                  SWICH ON SAYS WRITE "INPUT QUEUE
                                                                      12760014
              r.
                                  EMPTY! MESSAGE TO CONSOLE
                                                                      12770014
                                                                      12780014
  LEEBASEA
        EJECT
                                                                      12870017
CVTDSECT DSECT
                                                                      12880000
 CVT
                                                                      12300000
        EJECT
                                                                      12920000
IEFCSCB
        DSECT
                                                                      12940000
                                                                      12960000
 1EECHAIN
        EJECT
                                                                      12980000
IEFJCT
        DSECT
                                                                      13000000
 IEFAJCTB
                                                                      13020000
IEFSCT
        DSECT
                                                                      13026017
        TEFASCIB
                                                                      13032017
                                                                      13040000
JCTDETDA EQU
              INJMJCT+88
                                   1ST TTR IN END DSNAME TABLE
                                                                      13060000
        EJECT
13100000
                                                                    ú
                                                                      13120000
        THE FOLLOWING REPRESENTS A BLOCK OF MAIN STORAGE WHICH IS
                                                                    * 13140000
        ALLOCATED FOR THE LIFE OF
                                                                    * 13160000
        OF THIS INITIATOR. IT CONTAINS:
                                                                      13180000
                                                                      13200000
                   THE LCT (LINKAGE CONTROL TABLE)
                                                                      13220000
              (1)
                   A 2 LEVEL REGISTER SAVE AREA FOLLOWED BY THE
                                                                    * 13240000
                   THE QUEUE MANAGER PARAMETER AREA
                                                                      13260000
              131
                   AN ALTERNATE QUEUE MANAGER PARAMETER AREA
                                                                      13280000
                                                                      13300000
TEFLOT
        DSECT
                                                                      13340000
  JEFALLUT
                                                                      13360000
LCTBATMN DS
                *****TO BE ADDED TO LCT
                                                                      13380000
LCTSOOMP DS
                 *****TO BE ADDED TO LCT(VMS ONLY) POINTER TO
                                                                      13400000
                      SYSOUT QUEUE MANAGER PARAMETER AREA
                                                                      13420000
LCTSREG DS
                 *****TO BE ADDED TO LCT(MVT ONLY) - PTR TO STOP INIT
                                                                      13440014
                                                    FCB
                                                                      13460014
LCTINTSW DS
              OC
                                  INITIATOR INTERNAL SWITCHES
                                                                 1272 13462019
LCTIHIER FOU
                                 RUN IN HIERARCHY ONE
                                                                 1272 13464019
              128
LCTSDOXX EQU
                                 ATTACH IEFSDOXX
                                                                 1272 13466019
              32
                                 JOH FLUSH - USE MINPAR
                                                                 1272 13468019
LETMINEG EQU
              16
LCTSTART EQU
              8
                                 TASKNAME NOT ON COMMAND
                                                                 1272 13470019
LCTSTOP
        EQU
                                 INITIATOR INTERNAL STOP
                                                                 1272 13472019
              4
LCTABEND EQU
                                 EXECUTED PROGRAM ABENDED
                                                                 1272 13474019
LCTSPLP DS
                 *****TO BE ADDED TO LCT(MVT ONLY) - PTR TO START PAR- 13480014
                                                    AMETER LIST
                                                                      13500014
LCTTMWRK DS
              4F *****TO BE ADDED TO LCT(VMS ONLY) TIMER WORK AREA
                                                                      13520000
                 *****TO BE ADDED TO LCT(VMS ONLY) JOBLIB DCB PTR
LCTJOBLB DS
                                                                      13540000
                 *****TO BE ADDED TO LCT(VMS ONLY) POINTER TO
LCTATEST OS
              F
                                                                      13560000
                      ALLOCATE/TERMINATE PARAMETER LISTS
                                                                      13580000
                                       ALLOCATE/TERMINATE REGSAVE AREA 13600000
REGSAVE
        ns
              36F
QMGR1
        DS
              9 F
                                       QUEUE MANAGER PARAMETER AREA
                                                                      13620000
              9F
                                       ALTERNATE QUEUE MANAGER AREA
OMGRZ
        DS
                                                                      13640000
TRSTKINE DS
              2F
                                NEEDED FOR TRACK STACKING AND QUEUE
                                                                      13660000
                                BREAK INFORMATION. 1ST SYTE TO CON-
                                                                      13680000
```

```
TAIN NUMBER OF BUFFFRS, NEXT 3 BYTES
                                                                              13700000
                                    FOR STACK ADDR. NEXT 4 BYTES FOR
                                                                               13720000
                                    QUEUE BREAK INFORMATION
                                                                               13740000
DMWT01
         FOLL
                OMGR1+24
                                    PTR IN OMPA TO TRK STACK INFU
                                                                               13760000
OMWTO2
         FQU
                OMGR2+24
                                    PTR IN OMPA TO TRK STACK INFO
                                                                               13780000
FCHLIST
                1 F
         DS
                                                                               13786015
                2F 101
LCTIDENT DC
                                      HOLDER FOR IDENTIFIER
                                                                               13792015
LCTFORCE OS
                CL8
                                                                         1241 13793018
LCTLIMIT DS
                С
                                                                         1241 13794018
FRCPRTY
                C
         DS
                                                                         1241 13795018
                                      INITIATOR'S PRTY
INITPRTY DS
                                                                          1241 13796018
    THESE FIFLDS ARE NEEDED FOR L-SHAPE/INIT MERGE
                                                                          1272
                                                                               13796219
         DS
                OF
                                                                          1272 13796419
LCTOPSW1 DS
                OC
                                      INITIATOR OPTIONS BYTE 1
                                                                         1272 13796619
                                      DONT GET PROTECT KEY
DONT PROCESS DEDICATED WORKE
LCTPKEYE FOU
                128
                                                                         1272
                                                                               13796819
         EQU
LCTOWER
                64
                                                                         1272 13797019
LCTSTMDF
         FOU
                32
                                      DONT PROCESS STOP/MODIFY
                                                                          1272 13797219
LCTMINPF
         EΩU
                16
                                      GET REGION SIZE SPECIFIED
                                                                          1272
                                                                               13797419
LCTCANE
         FRU
                8
                                      ALLOW CANCEL ONLY AT ALLOC
                                                                          1272 13797619
LCTONEJE EQU
                4
                                      PROCESS ONLY ONE JOB
                                                                          1272 13797819
LCTICMDF EQU
                2
                                      DONT PROCESS INITIATOR CMDS
                                                                         1272 13798019
LCTEXIT
                                      ADDRESS INITIATOR EXIT LIST
         DS
                                                                         1272 13798219
LCTOPSW2 DS
                OC
                                      INITIATOR OPTIONS BYTE 2
                                                                         1272 13798419
LCTTIMEE EQU
                128
                                      DONT TIME THIS JOB
                                                                          1272 13798619
LCTCRF
          FQU
                64
                                      DONT ALLOW CHECKPT/RESTART
                                                                          1272
                                                                               13798819
LCTDSOF
         EQU
                32
                                      DONT PROCESS DSO
                                                                         1272 13799019
LCTCOM
         DS
                ۶
                                      COMMUNICATIONS PARM AREA PTR
                                                                          1272 13799219
LCTJSCB
                ۴
         DS
                                      ADDRESS OF JSCB FOR TASK
                                                                          1254 13799419
1EFEND
          FQU
                                           END OF LIFE-OF-TASK BLOCK
                                                                               13800000
          EJECT
                                                                               13820000
OMRDSECT DS
                OF
                                                                               13840000
          IEFOMRES
                                                                               13860000
 I E F Q M N G R
                                                                               13880000
OMDSC
         EQU
                QMT10+2
                                                                         CR17 13890017
CANCELED EQU
                X'01'
                          SET BY ALTER ROUTINE FOR IN-D JOB CAN35L
                                                                               13900000
          FUECT
                                                                               13910017
DSNIN
          DSECT
                                                                               13920000
          ns.
                OD
                                                                               13940000
     DSNAME
            ENO TABLE INPUT AREA
                                                                               13960000
ICTTR
          DS
                CL3
                                                CURRENT TTR
                                                                               13980000
          DS
                CII
                                                TABLE ID
                                                                               14000000
ILTTR
          ÐS
                CL3
                                                LAST TTR
                                                                               14020000
          DS
                CLI
                                                ALIGNMENT ZERO
                                                                               14040000
ICHAR
          DS
                F
                                                ACCUM. DSNAME CHAR COUNT
                                                                               14060000
                                                ACCUM. DSNAME COUNT
DSNAME RECORDS
ICNT
          DS
                н
                                                                               14080000
                CL152
          DS
                                                                               14100000
                                                                               14120000
     DSNAME DEG TABLE OUTPUT AREA
                                                                               14140000
OCTTR
          DS
                CL3
                                                CURRENT TTR
                                                                               14160000
OTABLD
                CLI
                                                TABLE ID
          DS
                                                                               14180000
OLTTR
          DS
                CL3
                                                LAST TTR
                                                                               14200000
          DS
                CL1
                                                                               14220000
OCHAR
          DS
                E
                                                ACCUM. DSNAME CHAR COUNT
                                                                               14240000
CONT
                                                ACCUM DSNAM COUNT
          DS
                                                                               14260000
OSTART
          DS
                CL162
                                                DSNAME RECORDS
                                                                               14280000
DEND
          EQU
                                                                               14300000
                                                                               14320000
```

7

i

```
* TWO 4 BYTE AREAS FOR TBUILD ROUTINE
           ÜZ
                  00
                                                                                14340000
  TREE
           DS
                  £
                                                                                14360000
           DS
                  00
                                                                                14380000
  BUD
           DS
                  F
                                                                                14400000
                                                                                14420000
 IEFLOT
           DSECT
                                                                                14440000
           ORG
                 REGSAVE+72
 * EXTERNAL PARAMETER AREA FOR OMGR
                                                                                14460000
 DEXPARM
                                                                                144800 0
           DS
                 ۴
                                                 CORE ADDR FOR READ OR WRITE 14520000
                                                                                14500000
 ATTR
           DS
                 CL3
           DS
                 CLI
                                                                                14940000
                                                                                14560000
    WORK AREA
                                                                                14580000
                                                                               14600000
 LENGTH
          DS
                                                                               14620000
 TTRBUF1
                                                CURRENT DSNAME LENGTH
          DS
                 CL3
                                                                               14640000
 TTRBUF2
                                                BUFFERS TO HOLD TTR S FOR
          DS
                 CL3
                                                                               14660000
                                                O MGR WRITE FUNCTION
 TESTEOD
          DS
                 CLI
                                                END OF DATA INDICATOR-X*FF*
DSNAME COUNT AND CHARACTER
                                                                               14680000
 CHARSAV
          DS
                 F
                                                                               14700000
CNTSAV
          OS
                 н
                                                                               14720000
                                                SAVE AREAS
                                                                               14740000
* PARAMETER
              LIST FOR TBUILD AND TSTRIP ROUTINES
                                                                               14760000
                                                                               14780000
TBLPARM
          DS
                ۴
                                                                               14800000
DSNBEG
                                                ADDR OF TREE-8
          DS
                F
                                           2ND PARM LIST ENTRY
                                                                               14820000
DSNEND
          D$
                ۴
                                           1ST PARM LIST ENTRY
                                                                               14840000
IEL
          DSECT
                                                                              14860000
          TEZIEL EXITS=RTN
COMPA
                                                                              14862019
          DSECT
                                                                              14864019
          TEZCOM
                                                                              14866019
          IEZJSCB
                                                                              14868019
CIBDSECT DSECT
                                                                              14870019
         IEZC IB
                                                                        1272 14872019
         1EFWTPC6
                                                                        1272 14874019
         END
                                                                       M4339 14877019
                                                                              14880000
```

٠ 1

```
TITLE 'IEFSD104-MS/1 STEP DELETE INTERFACE'
                                                                00020000
IFFS0104 CSECT
                                                                00040000
3.0
                                                          M2696 00041019
z/c
                                                          M38H1 00043019
*0!1200-011800.016200-016400.021400-021600
                                                          1272
                                                                00046019
*002600,004400,005600,006400,010800-015800,028600
                                                           1272 00052019
                                                          M4373 00056019
       BALR R12.0
                                                                00060000
                                                               00080000
* 00120000
             MS/1 STEP DELETE INTERFACE
                                                              * 00140000
χţ
                                                              * 00160000
* 00200000
 STATUS - CHANGE LEVEL 000
                                                              * 00220000
a't
                                                              * 00240000
* FUNTION (1) READ LCT FROM JOB QUEUF FOR SYSTEM TASKS
                                                           1272 00250019
                                                               00280000
 ENTRY POINT: IEFSD104 FROM IEFSD263.
χt
                                                              * 00300000
                                                                00320000
 INPUT: REGISTER ONE POINTING TO PARAMETER LIST CONSISTING OF:
                                                              * 00340000
3'0
            (1) USER PARAMS POINTER
                                                              * 00360000
            (2) FCB LIST POINTER
                                                              * 00380000
;;
            (3) ATTACH L LIST POINTER
                                                              * 00400000
            (4) LCT POINTER
                                                              * 00420000
            (5) SYSTEM TASKS - POINTER TO PARM AREA
                                                            1272 00430019
                IVON SYSTEM TASKS - ZERO
                                                            1272 00440019
            (6) TIOT LIST POINTER
                                                              * 00460000
210
            (7) DCH ADDRESS
                                                            1270 00470019
                                                              * 00460000
* DUTPUT - THE INPUT PARAMETER LIST CONTAINING AN UPDATED TIDT LIST
                                                              * 00500000
        POINTER
                                                              * 00520000
'nς
                                                              * 00540000
n's
 EXTERNAL REFERENCES - IEFSD514
                                                            1272 00560019
                                                              * 00580000
24
 EXIT - IEFSD164
                                                              * 00600000
                                                              * 00620000
* TABLES/WORK AREAS TIOT, LCT. CSCB
                                                            1272 00640019
                                                                00660000
* ATTRIBUTES - REENTRANT
                                                              * 00680000
                                                                00700000
                                                              χ¢
EJECT
                                                                00740000
        USING
                                                                00760000
             R5,ASD062
                              GET ADDRESS OF IEFSD062.
        T
                              BUMP THE ADDRESS TO THE ETT FLAG.
             R6,DISPLACE(R5)
                              SET THE FLAG 'FROM AFAR'.
        MVI
             0(R6) . X 'FF'
        USING IFFCSCH.R5
                                                            1272 00765019
        USING IEFLOT, R6
                                                           1272 00770019
        USING IOPARAMS, R7
                                                            1272 00775019
00780000
                                                              * 00800000
* THE FOLLOWING SECTION OF CODE SERVES UNLY TO IDENTIFY THIS MODULE
                                                              * 00820000
ı<u>t</u>
  IN A MEMORY DUMP
                                                              * 00840000
                                                              * 00860000
             FIRST
                                                              * 00880000
```

```
DC
               X + C C C C +
                                                                        * 00900000
                                                                        * 00920000
         nc
               C'IFFSD1041
         DC
               X1060819661
                                                                        * 00940000
                                                                        * 00960000
               X'CCCC'
         nc
FIRST
         DS
                                                                        * 00980000
                                                                        * 01000000
01040000
         EJECT
         LR
               R2.R1
                                         SAVE PARAMETER LIST REGISTER
                                                                          01060000
                                  LOAD SYSTEM TASK INDICATOR
                                                                     1272 01070019
               R3, X16(R2)
         1
                                                                     1272 01080019
         LTR
               R3,R3
                                   TEST FOR SYSTEM TASK
                                                                     1272 01090019
               SD104005
                                   BRANCH NOT SYSTEM TASK
         87
                                                                     1272 01100019
               R5,X8(R3)
                                   LOAD CSCB ADDRESS
                                  GETMAIN FOR 24 PARM AREA AND
                                                                     1272 01110019
         LA
               RO. X104
                                   72 REG SAVE AREA + 8 REMOTE LI
                                                                     1272 01120019
         GETMAIN R, LV=(0)
                                   SAVE AREA ADDRESS
                                                                     1272 01130019
         L.A
               R13, X32(R1)
                                                                     1272 01140019
                                   ADDRESS OF OMPA IN CSCB
         LA
               R7,CHOPA
                                   STORE ADDRESS IN PARM
                                                                     1272 01150019
         ST
               R7.X0(R1)
                                  ZERO PARM AREA
                                                                    M2696 01160019
               X4(X20,R1),X4(R1)
         XC
         MVC
                                   MOVE TTR TO PARM AREA
                                                                    M2696 01170019
               X4(X3,R1),X4(R3)
                                   ADDRESS OF REMOTE LIST
                                                                     1272 01180019
               R4,X24(R1)
         LΑ
                                  REMOTE LIST PTR IN OMPA
                                                                     1272 01190019
         ST
               R4.OMPCL
               QMPOP,X4
                                   INDICATE READ OPERATION
                                                                     1272 01200019
         MVI
         LR
               R10,R1
                                   SAVE ADDRESS
                                                                     1272 01210019
               R15, SD514RD
                                   ADDRESS OF TEESD415
                                                                     1272 01220019
                                   READ LCT FROM JOB QUEUE
                                                                     1272 01230019
         BALR
               R14,815
                                   TEST FOR I/O ERROR
                                                                     1272 01240019
         LTR
               R15,R15
                                                                     1272 01250019
                                   BRANCH NO I/O ERROR
               SD104002
         ВZ
               R1,X'080'
                                   OBO ABEND
                                                                     1272 01260019
         LA
                                                                     1272 01270019
         SLA
               R1,X12
         ABEND (1), DUMP
                                                                     1272 01280019
                                   ADDRESS OF LCT
                                                                     1272 01290019
SD104002 L
               R6, X8(R1)
         MVC
               QMGR1(X36),CHQPA
                                   MOVE MAIN DMPA TO LCT
                                                                     1272 01293019
         MVC
               QMGR2(X36), CHSQA
                                   MOVE SYSOUT OMPA TO LCT
                                                                     1272 01296019
         LA
               R7, DMGR1
                                   ADDRESS OF OMPA
                                                                     1272 01300019
                                    ADDRESS OF TRACK STACK INFO
                                                                     1272 01303019
               R11.0MWTQ
         1.
               TRSTKINF(X8), XO(R11)
                                       MOVE TS INFO
         MVC
                                                                     1272 01306019
               R4.REGSAVE+72
                                  ADDRESS OF REMOTE LIST
                                                                     1272 01310019
         LA
                                   ADDRESS OF REMOTE LT IN OMPA
                                                                     1272 01320019
         ST
               R4,QMPCL
               R4, TRSTKINE
                                   ADDRESS OF TRACK STACK INFO
                                                                     1272 01330019
         LA
               R4,0MWT01
         ST
                                   STORE TRACK STACK INFO
                                                                     1272 01340019
               R4,QMWT02
                                   IN BOTH OMPAS
                                                                     1272 01350019
         ST
                                   ADDRESS OF SAVE AREA
                                                                     1272 01360019
               R4, REGSAVE
         LA
         $T
               R4, LCTCMCBA
                                   STORE IN LCT
                                                                     1272 01370019
               R4,QMGR2
                                   ADDRESS OF SYSOUT O MGR
                                                                     1272 01380019
         LA
                                                                     1272 01390019
                                   PARM ARFA IN LCT
         ST
               R4, LCTSOOMP
                                   ADDRESS OF JOB STEP JSCH
               R8.LCTJSCB
                                                                     1272 01391019
         USING TEZJSCH, RB
                                                                     1272 01392019
                                   ADDRESS OF WTP CONTROL BLK
                                                                     1272 01393019
               R8, JSCBWTP
                                                                     1272 01394019
         DROP R8
         USING WTPCB.R8
                                                                     1272 01395019
               WTPOMPAD, LCTSHOMP+X1 MOVE ADDRESS OF OMPA
                                                                     1272 01396019
         MVC
         DROP R8
                                                                     1272 01397019
               RO, X104
                                   LENGTH TO BE FREED
                                                                     1272 01400019
         LA
                                   RESTORE ADDRESS
         LR
               R1,R10
                                                                     1272 01410019
                                  FREE PARM REMOTE LT AND RSA
         FREEMAIN R.LV=(0),A=(1)
                                                                     1272 01420019
               LCTPARM1(X16), XO(R3) MOVE LCT PARMS INTO LCT
                                                                     1272 01430019
```

```
FREEMAIN R.LV=24.A=(11).SP=TCORE FREE SYSPARM AND TS INFO 1272 01440019
                   X16(X4,R2).X16(R2) 7ERO PARM PTR
            ХC
                                                                            1272 01450019
            ST
                  R6,12(R2)
                                        STORE LCT ADDRESS IN PARM LIST
  SD104005 FOR
                                                                            1272 01460019
                                                                                  01600000
            LR
                  R1,R2
                                              RESTORE PARAMETER LIST ADDRESS
                                                                                 02300000
                  R15,SD64VCON
                                              ADDRESS OF TEFSDO64
                                                                                 02320000
                  R 15
                                              60 10 1EFSD064
  5064VCON DC
                                                                                 02340000
                  V(IEFSD064)
  S0514R0
                  VLIEFS()514)
                                                                                 02380000
            DC
 ASD062
                                                                            1272 02400019
            DC
                  V. (1FFS)(062)
  RO
            FOU
                  n
 R1
            FQU
                                                                                 02500000
                  1
 82
                                                                                 02520000
           FQU
 R3
                                                                                 02540000
           FQU
                  3
 R 4
           EQU
                                                                                 02560000
                  4
 R5
           FOU
                                                                                 02580000
                  5
 R6
                                                                                 02600000
           EQU
                  6
 R 7
           EQU
                                                                                 02620000
                  7
 RR
           FOLL
                                                                                 02640000
                  8
 R 9
           FOU
                  9
                                                                                 02660000
 RIO
           EQU
                                                                                 02680000
                  1.0
 R11
                                                                                 02700000
           FOU
                  11
 R12
           EQU
                                                                                 02720000
                  12
 R13
                                                                                 02740000
           EQU
                  13
 R14
                                                                                 02760000
           FOLL
                  14
 R15
           FOU
                 15
                                                                                 02780000
 X()
           FQU
                                                                                 02800000
                  0
 ΧĮ
           FOU
                                                                           1272 02802019
                 ì
 X 4
                                                                           1272 02803019
           EQU
 X3
           FQU
                 3
                                                                           1272 02804019
 X7
                                                                          M2696 02804619
           FOU
                 7
                                                                          M2696 02805219
 XR
           EQU
 X12
                                                                           1272 02806019
           EQU
                 12
 X16
                                                                           1272 02808019
           EQU
                 16
 X20
                                                                           1272 02810019
           EQU
                 20
 X24
                                                                          M2696 02811019
           EQU
                 24
 X32
                                                                           1272 02812019
           FOU
                 32
X 36
                                                                           1272 02814019
           EQU
                 36
X104
           EQU
                                                                           1272 02815019
                 104
 TCORE
                                                                           1272 02816019
           EQU
                 253
DISPLACE EQU
                                                                           1272 02818019
                 760
          EJFC1
                                                                          1272 02818319
          IEFWTPCB
                                                                          1272 02818619
          FJECT
                                                                           1272 02818919
          IEZJSCB
                                                                          1272 02819219
          FJECT
TEFLOT
          DSECT
                                                                          1272 02819519
                                                                                02820000
          TEFALLOY
          DS
                 1 F
                                                                                02840000
LCTSHOMP DS
                                                                          1272 02846019
                 1 F
                                      ADDRESS OF MESSAGE CLASS QUEUE
                                                                          1272 02852019
                                     MANAGER PARAMETER AREA
                                                                          1272 02858019
          DS
                 86
REGSAVE
                                                                          1272 02864019
          D.S
                36F
OMGR 1
                                                                          1272 02870019
          ns
                95
                                           MAIN OMGR PARAMETER ARFA
OMGR 2
          DS
                 9F
                                                                                02880000
                                           'ALTERNATE' OMGR PARAMETER AREA
() MC A P
          FRU
                DMGR1+24
                                                                               02900000
                                    PTR IN OMPA TO TRK STACK INFO
TRSTKINE DS
                                                                               02920000
                                    NEEDED FOR TRACK STACKING AND QUEUE
                                                                               02940000
```

-				<b>41</b>	
*  *  *  OMWTO1  OMWTO2	EQU EQU	OMGR1+24 OMGR2+24	PTR IN PTR IN	FUR STACK ADDR. NEXT 4 HYTES FOR OUGUE BREAK INFORMATION OMPA TO TRACK STACK INFO	02960000 02980000 03000000 03020000 03022019
LCTUSCB IFFEND IEFOMNG	DS DS EQU FJECT R	9F F *		ADDRESS OF PZP JSCH 1272 (1272	03024019 03025019 03026019 03028019 03029019
TEECHAI	EJECT DSECT N END			5 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	03030019 03031019 03032019 03034019 03040000

```
LEFW42SD CSECT
  RO
            EQU
                   0
  Rl
            FQU
                   1
  R2
            EQU
  К3
            FQU
                   3
  R4
            EQU
                   4
  R5
            EQU
  86
            EQU
  R7
            EQU
  R 8
            FQ!!
                   R
  R 9
            FQU
  R10
            FQU
                  10
 R11
            FQU
                  11
 R12
            FQU
                  12
 R13
            EQU
                  13
 R14
           EQU
                  14
 R15
           EQU
                  15
           ENTRY IEFV4221
                  (14,12).T
           SAVE
           DS
                  ОH
           BALR
                  R9.R0
           USING *, R9
           В
                  FIRST
                  xicccc:
           DC
           DC
                  CL8 I I EFSD42Q .
                  X1051619661
           DC
           DC
                  XICCCCI
 FIRST
           DS
                  OH
           USING LCT.R12
                 R12,0(R1)
           Ł
           LR
                 R2.R1
           L
                 R6.LCTDENTY
           SRL
                 R6,24
           SLL
                 R6,24
           SLL
                 R13.8
           SRL
                 R13,8
           ΔR
                 R13,R6
          ST
                 R13.LCTDENTY
                 R3,R3
          SR
                 R15,CVTPTR
          USING CVTDSECT,R15
                 R10+LVTMSER
          USING BASE, R10
          TM
                 MSLDGST, MSLOGENO
          ΒZ
                 IEFV4221
          DRDP
                R10,R15
                 RO. ENDLOGCR
          GETMAIN R.LV=(0)
          1 4
                R3,NO(,R1)
          MVC
                 NO(ENOLOGE.R3), ENOLOG
          USING ENGLOG, R1
                (ENGLOGOD, ENGLOGOR), MF=(F,(1))
          ENQ
          DRIDP
                R1
         LTR
                R15,R15
                1EFV4221
          BNZ
         LNR
                R3,R3
SYSOUT
         XCTL
               EP=IEFVLDSP
```

```
IFFV4221 EQU
            DROP
                  R9
            DALR
                  Ř9,Û
           USING *.R9
                  RB,ASDO62
                                       GET ADDR. OF IFFSDOSP.
           LA
                  R8, DISPLACE (R8)
                                       BUMP TO FTT FLAG.
           MVI
                  O(R8),XIFF
                                       REMOTE SET.
           USING LCT,R12
           LTR
                  R3, R3
           ΒZ
                  SECOND
           BP
                  NOLOG
           LPR
                  R1,R3
           DEQ
                  MF = (E, (1))
 NOLOG
           EQU
                  RO. ENGLOGER
           LPR
                  R1,R3
           FREEMAIN R, LV=(0), A=(1)
 SECOND
           DS
                 OH
           MVC
                 LCTJCTAD(4),4(R2)
           MVC
                 LCTSCTAD(4),8(R2)
           MVC
                 LCTPARM1 (4),12(R2)
           ST
                 R2.LCTATLST
                 R5, LCTTCBAD
           USING TCB.R5
          USING CVTDSECT.R15
                 R15 . CVTPTR
           TM
                 CVTDCB, X'20'
          во
                 JEFV42H
          XC
                 TCBTIO(4),TCBTIO
 IEFV42H
          EQU
                 R3.LCTJCTAD
          USING TEFUCT . R3
                 JCTJSTAT, INCMSTS+JCTJOBFL+JCTABEND+JCTSTPFL
          TM
          ΒZ
                 RJENDSET
          LA
                 R3, DMGR2
          USING IOPARAMS + R3
          01
                 OMSTA, RJENDFAL
          DROP
                R3
RJENOSET EQU
          GETMAIN R.LV=176
          ST
                R1, LCTSMBAD
                0(176,R1),O(R1)
          XC
          USING SCT.RZ
          L
                R2.LCTSCTAD
                R10, LCTJCTAD
          USING IEFJCT, R10
          MVC
                O(4,R1),SCTADSMB
          MVI
                TTRO(R1), SMBID
TESTWIP
          EQU
                R15,CVTPTR
         USING CVTDSECT, R15
         TM
                CVTDCB, MFT
         DROP
                R15
         во
                GOON
         t
                R11, LCTJSCB
         В
                WTPPTR
GOON
                R11, TCBJSCB(R5)
```

```
MIDELK
                   R11.WIPCRPTR(R11)
            L
            LΔ
                   R11.HIGHRYTE(R11)
            LTR
                   R11.R1:
            USING WIPDSECT.R11
            HN7
                   TESTWIP!
  \mathsf{HOF}\,\mathsf{ODM}
            FOII
            ŢΜ
                   SCISTYPE, X1201
            RO
                   IFFV42R
  MITALIN
            FQU
            I,
                   R13.LCICMCBA
            USING IMPARAMS + RI
            ΙΔ
                   R1.LCTOMPAM(R13)
            L\,\Lambda
                   R4.72(913)
            MVC
                   O(4,R4),LCTSMHAD
            LTR
                   R11.R11
            HZ.
                   MOWIP
                   D4(TTH.R4).WTPSMR
           MVC
            MVI
                   D7(R4),HEXOH
                   WTPHVEP1
 NUMTP
           FOH
           MVC
                  4(4.R4) . SCTADSMB
 WIPOVERI
           FOU
           1
                  R7.LCTSMHAD
           M \times I
                  OMPOP.X + 04 +
           ST
                  R4.OMPCL
           MVI
                  OMPCM.X*01
 READMEXT FOR
                  R15.TFEV42V1
           KALR
                  R14.R15
           LTR
                  R11+R11
           ΒZ
                  IEFV42R
           TM
                  WIPFLGSA . WIPINVKD
           ΗZ
                  TFFV42R
           MVI
                  NEXTHYTE (R7), FULL
IFFV42R
           ทร
                  OH
           ΤM
                  TCBFLGS.TCHFA
           BC.
                  1. IEFV42S
           TM
                  JCTRSW2,X 1011
           BZ
                  IFFV42T
          1 /
                  JCTRSW2,X *FE *
          ΠŢ
                 LCTOENTY.LCTERRM
                 LCTERROR(4), IFFV42C1
          MVC
IFFV42T
          FQII
          TM
                 SCISSIAT.4
          BO
                 IFFNEXT
          ΝI
                 JCTRSW1,255-JCTCKFT
IEFNEXT
          FOU
          L
                 R15, IEFV42V3
          BR
                 R15
IFFV42S
          DS
                 OH
                 R15, IEFV42V4
          HR
                 R15
TESTWIPI
          FOU
                 WTPFLGSA, WTPINVKD
          TΜ
          87
                 HULDUN
          MVC
                 SCICRWIP(D4) +WIPCRSMA
                WTPRFTN
```

OROP R11

```
1,0
           CONSTANTS AND DEECTS.
DISPLACE
          EQU
                  760j
 NEXTSMA
           EQU
                  4
 07
                  7
           EQU
 TIRO
           EQU
                  3
 TTR
           FQU
                  TTRO
 HIGHRYTE FOU
                  0
D4
           EQU
HEXOH
           EQU
                 X 1 00 1
 NEXTRYTE EQU
                 13
FULL
           EQU
                 XIA11
 WIPCHPIR FOU
                 X ! FC !
 TCRUSCH
                 X 1 84 1
          FOU
MET
           EQU
                 X1201
ASD062
           DC
                 V(IEESD062)
 IEFV42VI DC
                 V(IFFQMRAW)
 IEFV42V3 DC
                 V(IFFYN)
IEFV42V4 DC
                 V(IEFIDUMP)
                 (++E+06+SYSTEM) +RET=USE+MF=L
ENOLOG
          FNQ
ENGLOGOD DC
                 CL8'SYSTEFSD!
                 CL6 'SYSLOG'
ENOLINGOR INC
ENOLOGE EQU
                 *-ENQLOG
          ns
                 0F
ENGLOGER DO
                 AL1(255)
          DC
                 AL3(ENOLOGE)
NO
          EQU
                 0
N255
                 255
          EQU
IEFV42C1 DC
                 C'DSDR !
RJENDFAL FOU
                 8
JCTJOBEL EQU
                 64
JCTSTPFL EQU
                 16
TCB
          DSECT
          DS
                 CI.12
TCBTIO
          DS
                 CL4
          DS
                 CL13
TCBFLGS
          DS
                 CL5
TCRFA
          EQU
                 X1801
          IEFWTPCH
LCT
          DSECT
          TEFALLCT
LCTRATMN DS
LCTSCOMP
         DS
                 F
LCTRTRN
          DS
                 F
LCTCSCB
          DS
LCTTMWRK DS
                 46
LCTJOBLB
         DS
LCTATEST DS
REGSAVE
          DS
                 36F
QMGR1
          DS
                9F
OMGR 2
          DS
                9F
IEFEND
         EQU
LCTJSCH
         EQU
                LCT+360
SCT
         DSECT
```

LEFASCTR
LEFOMPAM
CVTDSFCT DSECT
CVT
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR
LEFAJCTR

0

```
TITLE 'IEFSD165 VMS INITIATOR FRROR MODULE'
                                                         00020000
IEFS0065 CSECT
                                                         00040000
                                                         00050017
<del>*2186016700-026300</del>
* 00080000
                                                        * 00100000
                      IEESD065
                                                        * 00120000
              NO ATTACH TERMINATE INTERFACE
                                                        * 00140000
*****************
*****************
                                                         00200000
*STATUS: CHANGE LEVEL 000
                                                         00220000
                                                        * 00240000
                                                        * 00260000
*FUNCTION:
          TO INTERFACE WITH THE TERMINATE ROUTINES WHEN AN ERROR
        IN ALLUCATE CAUSES THE JOB STEP TO BE NOT ATTACHED.
                                                        * 00280000
                                                        * 00300000
*ENTRY POINTS: IFFSD065 FROM THE ALLOCATE/ATTACH MODULF IEFSD062
                                                        * 00320000
                                                        * 00340000
          REG 1 POINTING TO A PARAMETER LIST CONTAINING POINTERS
                                                        * 00360000
* INPUT:
                                                        * 00380000
                            TD=**************
                                           LCT
                                                        * 00400000
                                        *****
                                                        * 00420000
                                               *
                                                        * 00440000
                                           JCT
                                        ****
                                                        * 00460000
                                                        * 00480000
                                           SCT
                                        *****
                                                        * 00500000
                                        * TINTLIST *
                                                        * 00520000
                                                        * 00540000
                                        *****
                                                        * 00560000
                                           0
                                                        * 00580000
                                                        * 00600000
*OUTPUT: REG 1 POINTING TO LCT
                                                         00620000
                                                         00640000
                                                         00660000
*EXTERNAL ROUTINES: IEFOMRAW - Q MNGR READ/WRITE ROUTINE
                                                         00088000
                IEFW42SD - TERMINATE
                                                        * 00700000
                                                        * 00720000
*TABLES AND WORK AREAS: LCT-TCB
                                                        * 00740000
      IEFSD162 - IF MORE STEPS TO BE RUN
                                                     CR17 00750017
*FXITS
                                                     CR17 00760017
      IEFSD166 - IF END OF JOB
*EXITS
     TEFSD168 - IF JOB IS TO BE SUSPENDED
                                                     CR17 00770017
*EXITS
                                                        * 00800000
                                                        * 00820000
*ERROR MESSAGES: NONE
                                                         00840000
*ATTRIBUTES: REENTRANT
                                                         00860000
                                                         00088000
                                                        * 00900000
***********************
* 00960000
       EJECT
                                                         00980000
       BALR
           12,0
                                                         01000000
       USING *.12
                                                         01020000
       USING IEFLOT, R11
                                                         01040000
***********************
       THE FOLLOWING CODE SERVES ONLY TO MAKE THIS MODULE EASIER
                                                        * 01080000
       TO IDENTIFY IN A DUMP LISTING.
                                                        * 01100000
```

```
***********************
                         FIRST
                                                                                                                          01140000
               0.0
                         x:ccce:
                                                                                                                          01160000
               DC
                         C!IFFSD165!
                                                                                                                          01180000
                         X '05031966'
               DC.
                                                                                                                          01200000
                         X 'CCCC'
               DC.
                                                                                                                          01220000
FIRST
               0.5
                                                                                                                          01240000
SETUP TO BUILD DUMMY TOB TO SATISFY REQUIREMENTS TO ENTER
11
                                                                                                                      * 01280000
               TERMINATE.
                                                                                                                      * 01300000
$\dark{\pi} \dark{\pi} \dark{\pi}
                         R3,R1
                                                                  SAVE POINTER TO PARAMETER LIST
                                                                 BUILT BY SD062
                                                                                                                      * 01360000
                         R11,0(R3)
                                                           LOAD LCT BASE
                                                                                                                   241 0136201B
                         RI,RI
                                                           CLEAR REG
                                                                                                                   241 01364018
                         R1.LCTQDRTY
               10
                                                           GET JOB PRIDRITY
                                                                                                                   241 01366018
                                                          PUT 15 IN REG
GET 15-PRTY
               LA
                         RO,15
                                                                                                                   241 0136801R
               SR
                         RO.R1
                                                                                                                   241 01370018
                                                           CHAP INIT UP TO UNSHADED PRTY
                                                                                                                   241 01372018
               CHAP
                         (0)
               LA
                         R1.TCORE
                                                           SUBPOOL
                                                                                                                 1272 01376019
               SLL
                         R1,024
                                                           SUBPOOL IN HIGH-ORDER BYTE
                                                                                                                 1272 01380019
                         RO, TCHLEN
                                                           LENGTH OF TC8
                                                                                                                 1272 01384019
               OR
                         RO,R1
                                                           SUBPOOL IN HIGH-ORDER BYTE
                                                                                                                 1272 01388019
               GETMAIN
                                R, LV=(0)
                                                           GET CORE FOR DUMMY TOB
                                                                                                                 1272 01392019
                         ZERO(TCBLEN,R1),ZERO(R1) ZERO DUMMY TCB
               ХC
                                                                                                                M4340 01422019
                         R1,LCTTCBAD
                                                                  STORE POINTER TO DUMMY TOB IN
                                                                                                                          01460000
                                                                  LCT
                                                                                                                      * 01480000
TCHTCT
               EQU
                         164
                                                                                                                 SMF1 01482018
                         R4, LCTODRTY
                                                                  PT TO CSCB
                                                                                                                 SME1 01484018
               USING
                          TEECSCH.R4
                                                                                                                 SMF1 01486018
                         R4,CHSWT
                                                                  NOW PT TO TCB
                                                                                                                 SMF1 01488018
                         TCBJSCB+D1(D3,R1),LCTJSCB+D1 ADDR JSCB TO TERM
                                                                                                                M4340 01489019
               DROP
                                                                                                                          01490018
                         TCBTCT(4,R1),TCBTCT(R4) COPY TCT PTR TO FAKE TCB
                                                                                                                 SMF1 01492018
              ***********************************
               SETUP TO GETCORE FOR REGSAVE AREA AND BRANCH TO TERMINATE
                                                                                                                      * 01520000
               AFTER RESTORING REG 1 TO POINT TO PARAMETER LIST BUILT BY
                                                                                                                      * 01540000
               SD062.
                                                                                                                      * 01560000
LR
                        R6,R1
                                                           SAVE ADDR DUMMY TCB
                                                                                                               M4340 01590019
               USING IEFSCT.R5
                                                                                                                 CR17 01610017
               USING IEFCSCB . R7
                                                                                                                 CR17 01620017
               USING IOPARAMS.R10
                                                                                                                 CR17 01630017
                         R5.LCTSCTAD
                                                                    SCT BASE.
                                                                                                                 CR17 01640017
                         R7, LCTODRTY
                                                                   CSCB BASE.
                                                                                                                 CR17 01650017
               iΔ
                         R10, DMGR1
                                                                   OMPA BASE.
                                                                                                                 CR_7 01660017
SD65005
               EQU
                                                                                                                          02640000
               GETMAIN
                             R.LV=72.SP=TCORE
                                                                                                                          02660000
               LR
                         R13,R1
                                                                                                                          02680000
               LR
                         R1.R3
                                                                  RESTORE PARAM LIST POINTER
                                                                                                                          02700000
                         R15,SD42VCON
                                                                   ADDRESS OF TERMINATE
                                                                                                                          02720000
                        R14,R15
                                                                   GO TO TERMINATE
                                                                                                                          02740000
    UPON RETURN FROM TERMINATE- SETUP TO FREECORE FOR THE DUMMY * 02780000
               TCB. TERMINATE RETURNS A CODE IN REGISTER 15 TO DENOTE IF JOB* 02800000
               TERMINATE WAS ENTERED OR NOT. O= NOT ENTERED- 4= ENTERED
                                                                                                                    * 02820000
```

```
LR
               R7.R15
                                        SAVE RETURN CODE
                                                                          07860000
         1 R
               R1, R3
                                         ADDRESS OF PARAMETER LIST
                                                                          0.28800000
         FREEMAIN R.LV=24.A=(1).SP=TCHPE
               P1.TCORE
         1.0
                                                                     1272 02904019
         SLL
               R1.024
                                    SHEPOOL IN HIGH-DROFE BYTE
                                                                     1272 02908019
               RO, TCBLEN
         LA
                                    LENGTH DE TOR
                                                                     1272 02912019
         OR
               RO.R1
                                    · UMPPUL IN HIGH-ORDER RYTE
                                                                     1272 02916019
         LR
               R1.R6
                                    RESTORE ADDR DUMMY TOE
                                                                    M4340 02926019
         FREEMAIN R.LV=(()).A=(1) FREE DHMMY TOB
                                                                     1272 02940019
         LR
               R1.413
                                        RESPORE POINTER TH REG SAVE AREA 02960000
         FREEMAIN R.LV=72.A=(1).SP=TCORE
         LΑ
               R15.4
                                                                     CR17 03000017
         CR
               R7,R15
                                         IS THIS JOB FERMINATION.
                                                                     CR17 03020017
         RNE
               5065226
                                    MO.
                                                                     CR17 03040017
                                    YES. JOH TERMINATION
1.0
                                                                    M4340 03042019
                                    ADDR EXEC PGM JSCR
               RIAL CTUSCS
                                                                    M4340 03044019
         USING IF/JSCB,R1
                                    JSCR ADDRESSABILITY
                                                                    M4340 03046019
               RI, JSCBWTP
                                    ADDR WIPCH
                                                                    M4340 03048019
         DROP
               R 1
                                                                    M4340 03050019
         LA
               R1.7FRO(R1)
                                    CLEAR HIGH-ORDER BYTE
                                                                    M4340 03052019
         USING WTPCH.RI
                                    WIPCH ADDRESSABILITY
                                                                    M4346 03054019
         XC.
               WTPSMB (WTPCBSI7) . WTPSMA
                                                                    M4340 03056019
                                              JERO WIPCH
         DRINE
                                                                    M4340 03058019
         LR
               R1,R11
                                         YES.
                                                                     CR17 03060017
               R15.5D66VCON
         Ł
                                                                     CR17 03080017
         BR
               R15
                                         GO TO TEESDIGG
                                                                     CR17 03100017
SD65226
         FQU
                                                                     CR17 03120017
                                    ADDR EXEC PGM USCH
         1
               R1.LCTJSCB
                                                                    M4340 03121019
         USING IEZJSCH.R1
                                    JSCP ADDRESSABILITY
                                                                    M4340 03122019
               R1.JSCHWTP
                                    ADDR EXEC PGM WTPCH
                                                                    M4340 03123019
         DR OP
               R 1
                                                                    M4340 03124019
         LΔ
               R1, ZERO(R1)
                                    CLEAR HIGH-ORDER BYTE
                                                                    M4340 03125019
         USING WTPCH,R1
                                    WIPCH ADDRESSABILITY
                                                                    M4340 03126019
                                    ZERO WTPSMB SLOT
         XC.
               WTPSMB, WTPSMR
                                                                    M4340 03127019
         NI
                                    TURN DEF ALL STEP FLAGS
               WTPFLGSA, WTPCLFAN
                                                                    M4340 03128019
         ХC
               WIPBYTES (D8) . WIPBYTES
                                        7 FRO 2 WORDS IN WIPCH
                                                                    M4340 03129019
         DRIDP
               R 1
                                                                    M4340 03130019
         LΔ
               R1.REGSAVE+72
                                         YES. OMGR REMOTE AREA.
                                                                    CR17 03140017
         ST
               R5,0(0,R1)
                                         SCT CORE ADDRESS TO REMOTE AREA 03240000
         MVC
                                         SCT TTR TO REMOTE AREA
               4(4,R1),SCTANSCT
                                                                          03260000
         5 T
               R1.OMPCL
                                         REMOTE AREA TO OMPAM
                                                                          03280000
         MVI
               OMPOP,4
                                         INDICATE READ OPERATION
                                                                          03300000
         MVI
               QMPCL +1
                                         INDICATE 1 OPERATION
                                                                          03320000
         LΑ
               R13.REGSAVE
                                         REGISTER SAVE AREA
                                                                          03340000
         1
               R15.0MVCON
                                         ADDRESS OF D MGR
                                                                          03360000
         LR
               R1,R10
                                         ADDRESS OF PARM AREA
                                                                          03380000
         BALR
               R14,R15
                                         GD TO READ IN SCT
                                                                          03400000
               SD65020(R15)
                                         CHECK RETURN CODE
                                                                          03420000
SD65020
                                         RETURN CODE OK
               $065030
                                                                          03440000
         BC
               0.5065020
                                         NO WORK. IMPOSSIBLE ON READ
                                                                          03460000
         BC.
               0.5065020
                                         NO SPACE, IMPOSSIBLE ON READ
                                                                          03480000
***********
                               IZO FRROR
                                                                          03500000
************
                                CODE TO PROCESS THIS CONDITION
                                                                          03520000
              R1,X'OBO'
                                SHOULD HE PLACED HERE
        LΑ
                                                                          03540000
        SIL
              R1,12
                                TEMPORARILY, AREND
                                                                          03560000
         ABEND (1), DUMP
                                                                          03580000
*****************
                                                                          03600000
```

```
SD65030
        FOU
                                                                    03620000
        10
              R1.LCTSNUMB
                                      UPDATE
                                                                    03640000
        L A
              R1.1(0.R1)
                                      STEP
                                                                    03660000
        STC
              R1.LCTSNUMB
                                      NUMBER IN LCT
                                                                    03680000
* 03720000
 LCTPARM1 IS TESTED IN IFFSD102 FOR DATA SET ENQUEUFING, AND MUST BE
                                                                 * 03740000
 SET TO ZERO BEFORE EXITING LEFSD165 TO LEFSD101.
                                                                  * 03760000
                                                                    03780000
              LCTPARM1.LCTPARM1
                                                                    03800000
                                                                  * 03820000
GET ADDRESS OF IEFSD062.
              R15,SD62VCON
        L
                                BUMP IT TO FTT FLAG.
        LA
              R15.DISPLACE(R15)
                                SET THE FLAG.
        MVI
              O(R15) . X 'FF'
                                      LCT ADDRESS TO RI
                                                                    03860000
        LR
              RI,RII
              R15.SD62VCON
                                                                    03880000
        L
                                     BRANCH TO SD062 TO ALLOCATE FOR
        BR
              R15
                                                                    03900000
                                     AND ATTACH ANOTHER JOB STEP
                                                                  * 03920000
                                                               CR17 03926017
SD6RVCON DC
              V(IEFSDO68)
        FJECT
                                                                    03932017
SD66VCON DC
              V(IEFSD066)
                                                                    03940000
SD62VCON DC
              V(IEFSD062)
                                                                    03960000
              V(IEFOMRAW)
                                                                    03980000
OMVCON
        nc
SD42VCON DC
              V(IEFW42SD)
                                                                    04000000
              760
DISPLACE EQU
              253
TCORE
        FÖU
                                                                    04020000
TIOTPTR
              12
                                     DISPLACEMENT OF TIOT PTR IN TCB
        FQU
                                                                    04040000
                                                               CR17 04050017
TCBFLGS
        EQU
              29
              184
                                 LENGTH OF TCB
                                                               1272 04052019
TCBLEN
        EQU
                                 JSCR DISPLACEMENT IN TCB
TCBJSCB
        FOU
              180
                                                               1254 04054019
                                 DISPLACEMENT
                                                              M4340 04054519
ZERO
        EQU
              0
                                                              M4340 04055019
Dì
        EQU
                                 DISPLACEMENT
D3
        EQU
                                 DISPLACEMENT
                                                              M4340 04055519
                                 DISPLACEMENT
                                                               1254 04056019
n4
        FQU
        EQU
Da
                                 DISPLACEMENT
                                                              M4340 04057019
                                 DISPLACEMENT
                                                               1272 04058019
024
        FOU
****
                  ******
                                                                    04060000
                                                                    04080000
                    REGISTER EQUATE STATEMENTS
***
                   **********
                                                                    04100000
R0
        EQU
              0
                                                                    04120000
                                                                    04140000
        FOIL
R1
                                                                    04160000
R2
        EQU
              2
                                                                    04180000
R3
        EQU
              3
                                                                    04200000
R4
        EQU
R5
        EQU
              5
                                                                    04220000
                                                                    04240000
R6
        EQU
              6
                                                                    04260000
R7
        FQU
R8
        EQU
                                                                    04280000
                                                                    04300000
R 9
        EQU
              9
R10
        EQU
              10
                                                                    04320000
R11
        EQU
                                                                    04340000
              11
                                                                    04360000
R12
        EQU
              12
R13
        EQU
              13
                                                                    04380000
        EQU
                                                                    04400000
R14
              14
R15
        EQU
              15
                                                                    04420000
        EJECT
                                                                    04430017
```

```
04440000
IEFCSCB DSECT
                                                                       04460000
        IEECHAIN
        EJECT
                                                                       04470017
THADCB
                                                                       04480000
        DSECT
DCBSTART EQU
                                                                       04500000
        DCB
              DSORG=PO, MACRF=E
                                                                       04520000
                                       DCB EXIT LIST
IEFXLIST DC
              FIOI
                                                                       04540000
                                                                       04560000
DCBEND
        EΩU
                                                                       04580000
        EJECT
TEFSCT
        DSECT
                                                                       04600000
  IEFASCTB
                                                                       04620000
        EJECT
                                                                       04630017
                                                                       04640000
  I E F Q M N G R
                                                                  CR17 04650017
QMOSC
        EQU
              QMTID+2
                                                                       04660000
IEFLOT
        DSECT
                                                                       04680000
*************************
                                                                     * 04700000
        THE FOLLOWING REPRESENTS A BLOCK OF MAIN STORAGE WHICH IS
                                                                     * 04720000
        ALLOCATED FOR THE LIFE OF
                                                                     * 04740000
                                                                       04760000
        OF THIS INITIATOR. IT CONTAINS:
                                                                       04780000
                   THE LCT (LINKAGE CONTROL TABLE)
                                                                       04800000
               (1)
                   A 2 LEVEL REGISTER SAVE AREA FOLLOWED BY THE
                                                                     * 04820000
                   THE QUEUE MANAGER PARAMETER AREA
                                                                       04840000
                   AN ALTERNATE QUEUE MANAGER PARAMETER AREA
                                                                     * 04860000
04920000
  IEFALLCT
                                                                       04940000
                 *****TO BE ADDED TO LCT
LCTBATMN DS
LCTSOOMP DS
                 *****TO BE ADDED TO LCT(VMS ONLY) POINTER TO
                                                                       04960000
                      SYSOUT QUEUE MANAGER PARAMETER AREA
                                                                       04980000
                 *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR'S
                                                                       05000000
LCTRTRN DS
                      RETURN POINT
                                                                       05020000
                 *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR CSCB
LCTCSCB DS
                                                                       05040000
                      ADDRESS
                                                                       05060000
              4F ****TO BE ADDED TO LCT(VMS ONLY) TIMER WORK AREA
                                                                       05080000
LCTTMWRK DS
                 *****TO BE ADDED TO LCT(VMS ONLY) JOBLIE DCB PTR
LCTJOBLB DS
                                                                       05100000
                 *****TO BE ADDED TO LCT(VMS ONLY)
                                                   POINTER TO
                                                                       05120000
LCTATLST DS
                       ALLOCATE/TERMINATE PARAMETER LISTS
                                                                       05140000
              36F
                                       ALLOCATE/TERMINATE REGSAVE AREA 05160000
REGSAVE
       DS
                                       QUEUE MANAGER PARAMETER AREA
                                                                       05180000
OMGR 1
        DS
              9F
                                       ALTERNATE QUEUE MANAGER AREA
OMGR 2
        DS
               9 F
                                                                       05200000
                                  TO CORRECT DISPLACEMENT
                                                                 M4340 05201019
        DS
               8F
    THESE FIELDS ARE NEEDED FOR L-SHAPE/INIT MERGE
                                                                  1272 05202019
              0F
                                                                  1272 05203019
        DS
LCTOPSW1 DS
               OC
                                  INITIATOR OPTIONS BYTE 1
                                                                  1272 05204019
                                  DONT GET PROTECT KEY
LCTPKEYF EOU
              128
                                                                  1272 05205019
                                  DONT PROCESS DEDICATED WORKF
LCTDWFF
                                                                  1272 05206019
        EQU
LCTSTMDF EQU
              32
                                  DONT PROCESS STOP/MODIFY
                                                                  1272 05207019
LCTMINPF EQU
                                  GET REGION SIZE SPECIFIED
                                                                  1272 05208019
               16
LCTCANE
        EQU
               8
                                  ALLOW CANCEL ONLY AT ALLOC
                                                                  1272 05209019
LCTONEJF EQU
                                                                  1272 05210019
                                  PROCESS ONLY ONE JOB
                                  DONT PROCESS INITIATOR CMDS
                                                                  1272 05211019
LCTICMDF EQU
                                  ADDRESS INITIATOR EXIT LIST
                                                                  1272 05212019
LCTEXIT
        DS
LCTOPSW2 DS
               OC.
                                  INITIATOR OPTIONS BYTE 2
                                                                  1272 05213019
LCTTIMEF EQU
               128
                                  DONT TIME THIS JOB
                                                                  1272 05214019
                                                                  1272 05215019
LCTCRF
        EQU
               64
                                  DONT ALLOW CHECKPT/RESTART
```

LCTOSUE	FALL	32	DONT PROCESS OSO	1272	05216019
LCTCOM	OS	Ē	COMMUNICATIONS PARM AREA PTR	1272	05217019
LOTUSCH	0.5	ŗ	ADDERSS OF USCH FOR NEW TASK	1754	05218019
<b>TEFEND</b>	FOH	134	END DE LIFE-DE-TASK BLOCK		05220000
	16/15	CH			05226019
MINOLE	rnu	JSCRWTP-1F7JSCR	DISPLACEMENT OF WIP PIK	1254	05232019
	IFFWT	PCB		M4340	05234019
WIPCLEAN	FOU	X + 4 C +		M434()	05236019
	FJFCT				05240000
	FND				05260000

0

```
TITLE "IFESD162 VMS INITIATOR STEP PROCESSOR"
                                                                       00020000
IEFCVT
        DSECT
                                                                       00040000
                                                                       оповроот
        CVT
        EJECT
                                                                       00070017
IEESDO62 CSECT
                                                                       00080000
   055610-055630.055700.055805.059400.063110.082750
                                                                A29871 00080119
                                                                 M3166 00080219
z'c
   066390-066550
                                                                A27679 00080519
                                                                 M2434 00081018
* 069800-070200,070800
                                                                  CR17 00092017
        ENTRY IEESD62A
* 059000-060600,063260-063740,083000-083200,086200
                                                                A16531 00083018
*2056043971
                                                                PTM663 00085016
*0059
                                                                  1404 00090014
*1785043669,043687,068200,068400,069600,070800,083800
                                                                 18428 00092017
*()642
                                                                  MTS0 00095016
*011400,044400-045400,045800,051190,063800,066600,072620,074800-
                                                                  1272 00095319
*076800.08100-081600.084000.085660-085720.090800-091000
                                                                  1272 00095619
                                                                  1272 00095919
*016400,017600,027200-029600,029610-029630,029800-0302008031000
*036500,043414-043597,043633-043642,080400,099200-099400
                                                                  1272 00096219
                                                                  1199
                                                                      00096519
*0298008031120,031200-031405,031420,031420,031490-031500
* 030890-030917,030935-031023,031502
                                                                 M4012 00096719
*2229056500-056700
                                                                 17464 00097017
                                                              PTM17052 00098017
*2842
*
                                                                 M4137 00099018
* 031293-031294
                                                                 M3164 00099219
                                                                 M4373 00099519
* 030926-031261
                                                                 M2945 00099719
***********************
                                                                     * 00120000
             VMS ALLOCATE ENTRANCE/ATTACH INTERFACE MODULE
                                                                     * 00140000
                                                                     * 00160000
* 00200000
 STATUS-
×τ
              CHANGE LEVEL - 0
                                                                     * 00220000
  FUNCTION: 1. COMPLETE ENTRANCE INTERFACE FOR ALLOCATE
χķ
                                                                     * 00240000
            1A.ENTRANCE INTERFACE FOR TIUT WRITE (IEFS0514) ROUTIN CR17 00250017
           18. UPDATE THE CSCH - SCAN THE SIDT FOR IFFRDER IF TASK 1272 00252019
               NAME IS 'STARTING'
                                 - SCAN THE TIOT ON RETURN
                                                                  1272 00254019
               FROM ALLOCATION FOR IEFRDER.
                                                                       00256019
           2. DETERMINE (BY ALLOCATE EXIT PARAMETER) WHETHER OR NOT
                                                                     * 00260000
              STEP SHOULD BE ATTACHED. IF SO, BUILD AN ATTACH
                                                                     * 00290000
               PARAMETER LIST FOR ATTACH.
                                          IF NOT. PASS THE ALLOCATE
                                                                       00300000
              EXIT PARAMETER LIST TO IFFSD165
                                                                     * 00320000
           3. IF OPEN JOHLIB OR OPEN FETCH DATASET FAILS, ATTACH
                                                                     * 00340000
               IEFSDOXX INSTEAD OF THE USERS JOB STEP. THIS WILL
                                                                     * 00360000
               FAIL ON THE OPEN AGAIN AND ABEND THE JOB STEP.
                                                                     * 00380000
            4. CONDITIONALLY LINK TO LEEDSOWR TO WRITE JOB
                                                                   099 00385019
              SEPARATORS AND/OR SYSTEM MESSAGES (SMB'S) FOR DIRECT SYSOUT DATA SETS.
                                                                   099 00390019
2,4
                                                                   099 00395019
                                                                     * 00400060
   ENTRY POINT:
                IEFSD162 FROM IEFSD161, IEFSD164, AND IFFSD165.
*
                                                                     * 00420000
**
                 IEFS062A FROM IEFS0164 FOR IMMEDIATE RESTART
                                                                  CR17 00430017
                                                                     * ()0440000
24
   INPUT:
              LCT POINTED TO BY REGISTER ONE
                                                                     * 00460000
4
           2. LPMOD VALUE IN 1ST BYTE OF LCTODRTY
                                                                     * 00480000
           3. IF THE ENTRY IS TO LEFSD62A, REGISTER 1 POINTS TO TH CR17 00481017
               PARAMETER LIST THAT CONTAINS-
                                                                  CR17 00482017
```

```
******
                                                  CR17 00483017
                                                  CR17 00484017
                                     LCT
                                   ***
                                                   CR17 00485017
                                     JCT
                                          *
                                                  CR17 00486017
                                 **********
                                                  CR17 00487017
                                                  CR17 00488017
                                     SCT
                                 *****
                                                  CR17 00489017
                                 * TIOT LIST *
                                                  CR17 00490017
                                 *****
                                                   CR17 00491017
                                                     * 00500000
 OUTPUT:
        1. IF ALLOCATE EXIT PARAMETER INDICATES BYPASS ATTACH,
                                                     * 00520000
           * LCT POINTER
                                                     * 00560000
                                      *****
                                                      00580000
                                      * JCT POINTER
                                                     * 00600000
                                      ********
                                      * SCT POINTER
                                                     * 00640000
                                      * TIOTLIST POINTER * 00680000
                                      ***********
                                      * ZERO
                                                      00720000
                                      ******* () () () ()
         2. IF ALLOCATE EXIT PARAMETER INDICATES ATTACH.
                                                     * 00760000
*
            R1 POINTS TO******************************
                            * USER PARAMS POINTER
                                                     * 00800000
                            **********
                           * ECH LIST ADDRESS
                                                     Χt
                                                      00840000
                            ********* 0086000
                           * SUPERVISOR LIST ADDRESS
                                                     * 00880000
                            ******** 0090000
                           * LCT ADDRESS
                                                     * 00920000
                            ******** 00940000
зķ
                           * INITIATOR TCR ADDRESS
                                                     * 00960000
                            * TIOT ADDRESS
                                                     * 01000000
                            ********* 01050000
                           * DCB ADDRESS
                                                   1270 01026019
                                                   1270 01032019
                            ******
 EXTERNAL ROUTINES-
                   1EFW21SD, IEFOMRAW, IEFSD514
                                                   CR17 01040017
*
                   IEFDSDWR
                                                   099 01050019
                                                     * 01060000
¥
 EXITS-
           IEFSD163
                  (ATTACH JOB STEP)
                                                      01080000
                  (DO NOT ATTACH JOB STEP)
           1EFSD165
                                                     * 01100000
           IEFSD161 (JOB SELECT)
                                                   099 01110019
                                                     * 01120000
¥
 TABLES/WORK AREAS LCT.JCT.SCT.CSCH.SINT.TINT.GWT
                                                   1272 01140019
                                                     * 01160000
χt
 ATTRIBUTES- READ ONLY AND REENTRANT
                                                     * 01180000
                                                     * 01200000
EJECT
                                                      01240000
RO
      FQU
                                                      01260000
R1
      EQU
           1
                                                      01280000
R 2
      FOU
           2
                                                      01300000
R3
      EQU
                                                      01320000
к4
      FOU
           4
                                                      01340000
R5
      FOU
           5
                                                      01360000
```

```
EQU
                                                                    01380000
R6
              6
R7
        EQU
                                                                    01400000
                                                                    01420000
        FOU
RR
                                                                    01440000
R 9
        EQU
                                                                    01460000
KIO
        EQU
              10
R11
        EQU
              11
                                                                    01480000
                                                                    01500000
        FQU
R12
              12
                                                                    01520000
R13
        FOU
              13
        EQU
                                                                    01540000
R14
              14
815
        EQU
              15
                                                                    01560000
        EJECT
                                                                    01580000
              R12,0
                                                                    01600000
        BALR
        USING IEFPARAM, R11
                                                                    01620000
        USING IDPARAMS, R9
                                                                    01660000
                                                                    01680000
        USING
              IEFLOT.R8
        USING IEFJCT, R7
                                                                    01700000
        USING IEFSCT, R6
                                                                    01720000
        USING IEFCSCB, R5
                                                                    01740000
                                                                    01780000
        USING *,R12
              FIRST
                                                               CR17 01781017
              R12,0
IEFSD62A BALR
                                                               CR17 01782017
        LΑ
              R11, IEFSD62A-IEFSD062
                                                               CR17 01783017
                                     INITIALIZE BASE REG. 12
        SR
              R12,R11
                                                               CR17 01784017
              R8+0(R1)
                                     LCT
                                          - BASE REG.
                                                               CR17 01785017
              R7,4(R1)
                                          - BASE REG.
                                     JCT
                                                               CR17 01786017
        L
              R6+8(R1)
                                     SCT
                                          - BASE REG.
                                                               CR17 01787017
                                     PARAM LIST ADDR. (APL!)
        LR
              R2,R1
                                                               CR17 01787219
              R9,OMGR1
                                     ADDR OF QMPA
                                                               CR17 01787419
        LA
              R1,CVTPTR
                                POINTER TO CVT
                                                               1272 01787619
        USING IEFCVT,R1
                                                               1272 01787819
              R1.CVTTCBP
                                POINTER TO NEW/OLD TOB
                                                               1272 01788019
        DROP
                                                               1272 01788219
              R1
              R1,X4(R1)
                                ADDRESS OF CURRENT TCH
                                                               1272 01788419
        ST
              R1,LCTTCBAD
                                STORE TOB ADDRESS IN LCT
                                                               1272 01788619
                                ADDRESS OF INIT USCH
              R3.TCBJSCB(R1)
                                                               1272 01788819
                                ADDRESS OF JOB STEP JSCB
              RO, LCTJSCB
                                                               1272 01789019
                                PUT JOB STEP JSCB IN INIT TCB
                                                               1272 01789219
        ST
              R3,LCTJSCB
              RO, TCBJSCB(R1)
                                FOR REFERENCE BY OPEN
                                                               1272 01789419
        ST
              LCTPARM4(4), LCTPARM4
                                     ZERO OUT LCTPARM4 FOR REGI CR17 01790017
        XC.
        R
              SD062030
                                                               CR17 01791017
        EJECT
                                                                    01800000
* 01840000
        SECTION OF CODE IS FOR PROVIDING A METHOD OF IDENTIFYING
                                                                  * 01860000
                THIS MODULE IN A MEMORY DUMP
                                                                    01880000
                                                                    01900000
              XICCCCI
        DC
                                     EYE-CATCHER
                                                                    01940000
              C'IEFS0162'
        DC
                                                                    01960000
        DC
              X1050319661
                                                                    01980000
              X'CCCC'
        DC
                                     FYE-CATCHER
                                                                    02000000
FIRST
        DS
                                                                    02020000
                                                                  * 02040000
EJECT
                                                                    02080000
**********************
                                                                  * 02120000
  THE FOLLOWING SECTION OF CODE BRANCHES TO THE ALLOCATE SUBROUTINE
                                                                  * 02140000
```

```
AND THE MALLOCATE'S RETURN. CHECKS A RETURN CODE IN RIS. IF RIS IS * 02160000
    ZERO. PROCESSING CONTINUES MORMALLY. IF RIS IS NOT ZERO. THE
  1)(
    ATTACH MUDILE (TEESDO63) IS RYPASSED
                                                                         * 02180000
    LINKING TO TEEDSTOOP IS ALSO PERFORMED TO HANDLE WRITING JOH
                                                                        # 02200000
    SEPARATORS AND SMR'S IF DIRECT SYSUUT (DSD) IS ACTIVE FOR JOB
                                                                      099 02205019
                                                                      1199 02212019
 LR
                                                                        * 0226000C
                RR.RT
                                          ADD ESS DE LOT
          L
                R6.LCTSCTAD
                                                                          02280000
                                          ADDR OF SCT.
                                                                     CR17 02480017
                R7.LCTJCTAD
                                     JCT ADDRESS FROM LCT
          LA
                                                                     1272 02580019
                R9.OMGR1
                                         LOAD ADDR OF OMER PARAM AREA
                R3. DMCAP
                                                                          02585019
                                         PTR TO TRK STACK INFO
          SR
                                                                          02590019
                R5, R5
          IC.
                R5.0(R3)
                                                                          02595019
                                        LOAD NO. DE BUFFERS IN STACK
          LTR
                                                                          02600019
                R5.R5
                                         IF IT IS ZERO.
          HC.
                                                                          02605019
                8,1FFSD022
                                        BRANCH AROUND
          GETMAIN R.LV=72
                                                                          02610019
                                        GET CORE FOR REG SAVE AREA
                                                                          02615019
                R13,R1
                                        LOAD ITS ADDR INTO REG
          L.A
                R1,0MGR1
                                                                          02620019
                                        PTR TO MAIN OMPA
                R15.IFFSDSTI
                                                                          02625019
                                        ADDR OF STACK INIT. RTN
          HALR
                R14,R15
                                                                          02630019
                                        GIT GET STACK
                                                                          02635019
 IEESDO22 EQU
                                                                          02640019
                R5.LCTQURTY
                                                                          02645019
                                   ADDRESS OF CSCH
                                                                     1272 02650019
          TM
                CHSWT, CHSYS
                                   TEST FOR SYSTEM TASK
                                                                     1272 02655019
          87
                IFFSD024
                                   BRANCH NOT SYSTEM TASK
                SCTSCLPC(X8) + ACSTARTG TASKNAME ON COMMAND
                                                                     1272 02660019
          CLC
                                                                     1272 02665019
          HNE
                SKIPSCAN
                                   TASK SPECIFIED SKIP SCAN
                                                                    1272 02670019
         ΙΔ
                RO. X256
                                   GET CORF & HYTES FOR PARM.
         GETMAIN R.LV=(0)
                                                                    1272 02675019
                                   176 BYTES FOR READ AREA, 72 RSA
                                                                   1272 02680019
         LR
               R3,R1
                                   ADDRESS OFEXTERNAL LIST
                                                                    1272 02685019
         IΛ
                R10, X8(R3)
                                    ADDRESS OF READ IN AREA
         1Δ
               R13,X184(R3)
                                                                    1272 02690019
                                   ADDRESS DE REG SAVE AREA
         USING SIDT, RIO
                                                                         02695019
                                   TEMP SIOT BASE
                                                                    1272 02700019
         ST
               R10,X0(R3)
                                    ADDRESS OF READ IN AREA
               X4(X4,R3),SCTFSINT
                                                                    1272 02705019
         MVC
                                   TTR OF SIDT FROM SCT
                                                                    1272 02710019
         CLI
               SCINSINI NOSINIS
                                    ARE THERE ANY SIDTS
                                                                    1272 02715019
         RF
               NODDRDER
                                    BRANCH NO STOTS
                                                                    1272 02720019
         SR
               R2,R2
                                   ZFRO REGISTER
         IC
                                                                    1272 02725019
               R2, SCTNSIOT
                                  NUMBER OF STOTS
                                                                    1272 02730019
         ST
               R3.OMPCM
                                   PARM LIST
                                                                    1272 02735019
         MVI
               OMPCM, ONFREC
                                   READ ONE RECORD
                                                                    1272 02740019
         MVI
               OMPOP, READCODE
                                   READ OF CODE
REREAD
                                                                    1272 02745019
               R15, IEFQMGRV
                                  ADDRESS OF LEFOMRAW
         LR
                                                                    1272 02750019
               RIVES
                                  ADDRESS OF OMPA
                                                                    1272 02755019
         HALR
               R14,R15
                                                                    1272 02760019
         LTR
               R15,R15
                                  TEST FOR ID FREDR
                                                                    1272 02765019
         BNE
               SD062015
                                  BRANCH I/O ERROR
                                                                    1272 02770019
         CLC
               SCIDDNAM(X8), JEFRDER IS DDNAME IEFRDER
                                                                    1272 02775019
         AF
               DORDER
                                  BRANCH YES
                                                                    1272 02780019
         BCT
               R2.NEXTTTR
                                  GET NEXT TTR
                                                                    1272 02785019
         R
               NODDRDER
                                  TEERDER NOT FOUND DEFAULT PROC
NEXTITE
               X4(X4.R3).SCTPSIGT TTR OF NEXT TTR IN CHAIN
                                                                    1272 02790019
        MVC
                                                                    1272 02795019
               REREAD
NODDRDER MVC
              CHKFY(XB), JCTJNAME MOVE PROC TO CSCB AS TASK NAME
                                                                    1272 02800019
                                                                   1272 02805019
        MVC
               SCTSNAME(X8).JCTJNAME MAKE JOBNAME STEPNAME
                                                                    1272 02810019
```

```
IEF16205
                                                                      1272 02815019
SKIPSCAN MVC
               SCTSNAME(X8), SCTSCLPC MOVE TASKNAME TO STEP NAME
                                                                      1272 02830019
                SCTSCLPC.BLANK
         MVI
                                    INSERT BLANK
                                                                      1/12
         MVC
               SCTSCLPC+X1(X7),SCTSCLPC
                                          BLANK STEP
                                                                      1272 02840019
         R
               TEFSD024
                                                                      1272 02845019
DDRDER
         CLC
               SCTUTYPE(X4) + BLANKEW IS UNIT TYPE SPECIFIED
                                                                      1272 02850019
         RF
               NODDRDER
                                    BRANCH ON NO UNIT
                                                                      1272 02855019
               SCTSNAME(X8) . SCTUTYPE SAVE UNIT NAME IN SCT
         MVC
                                                                      1272 02860014
         MVC.
               CHKEY(XB), SCTUTYPE SAVE UNIT WANTED IN CSCB
                                                                      1272 02865019
1EF16205 EQU
                                                                      1272 02870019
         MVI
               SCTSCLPC.BLANK
                                    INSERT BLANK
                                                                      1272 02875019
         MVC.
               SCTSCLPC+X1(X7), SCTSCLPC BLANK STEP THAT CALLED
                                                                      1272 02880019
         DROP R10
                                                                           02885019
         USING IEFTINT RIO
                                                                      1272 02890019
               LCTINTSW, LCTSTART
         01
                                   SET SWITCH
                                                                      1272 02895019
               R10,LCTTCBAD
                                   ADDRESS OF INIT'S TOB
                                                                      1272 02896019
                                   ADDRESS OF TIOT
               R10,TCBTIO(R10)
                                                                      1272 02897019
         MVC
               TIOCSTEP(X8), CHKEY TIOT STEP NAME = CHKEY
                                                                      1272 02898019
         LR
                                   SET UP TO FREE READIN AREA
               R1,R3
                                                                      1272 02900019
         LA RO+X256
                                   LENGTH TO BE FREED
                                                                      1272 02902019
         FREEMAIN R . LV=(0) . A=(1) FREE CORE
                                                                      1272 02905019
IEFSD024 EQU
                                                                      1272 02910019
               R2.LCTPARM3
                                    SAVE GWT ADDRESS IN REG
                                                                      1272 02930019
               LCTPARM3,X'8'
         CLI
                                         DID AN ERROR OCCUR IN IEFS LS17 02964017
         BNE
               IEF06223
                                                                      LS17 02965017
                                        NO ERROR
         nc
               SCTMSADR (4), SCTMSADR
                                        IS THIS A SPECIFIC REQUEST
                                                                      CR17 02966017
         BE
               SD162F3
                                         NON-SPECIFIC
                                                                      CR17 02967017
               LCTPARM3,X141
         MVI
                                         ERROR IN SPECIFIC REQUEST
                                                                     CR17 02968017
SD162F3
         ΟI
               JCTJSTAT, INCMSTS
                                         TURN ON JOB FAILED BIT
                                                                     CR17 02969017
IEF06223 EQU
                                                                      CR17 02970017
                                                                      1272 02970519
 ALLOCATION AND OPEN WILL NEED TO REFERENCE THE JOB STEP'S
                                                                      1272 02971019
 WRITE TO PROGRAMER CONTROL BLOCK. THEREFORE THE SUBTASKS
                                                                      1272 02971519
 JSCB WILL BE IN THE INITIATOR'S TOB. THE JSCB FOR THE INIT
                                                                      1272
                                                                          02972019
* WILL BE KEPT IN THE LCT
                                                                      1272 02972519
               R4.LCTTCBAD
                                   ADDRESS OF INIT TOB
                                                                      1272 02973019
               R3,LCTJSCB
                                   JOB STEP JSCB
                                                                      1272 02973519
               RO.TCBJSCB(R4)
                                   INIT'S JSCB
                                                                      1272 02974019
         ST
               R3+TCBJSCB(R4)
                                   JOB STEP JSCB IN INIT TCB
                                                                     1272 02974519
         ST
               RO, LCTJSCB
                                   INIT'S JSCB IN LCT
                                                                      1272 02975019
         I.A
                         GETMAIN SIZE
               RO, X104
                                                                      099 02976019
               R1.TCORE
         LA
                                   LOAD SUBPOOL
                                                                      1272 02982019
         SLL
               R1,X24
                                   SUBPOOL IN HIGH ORDER BYTE
                                                                      1272 02988019
                                   SUBPOOL AND LENGTH
         OR.
               RO,RI
                                                                     1272 02994019
                    FOLLOWING GETMAIN INCLUDES 8 BYTES FOR A
                                                                      099 03000019
                    PARAMETER AREA TO BE PASSED TO LEFDSOWR.
                                                                      099 03006019
                    SAVEAREA IS RE-USED WHEN LINKING TO SAME.
                                                                      099 03012019
                                                                      099 03018019
         GETMAIN
                 R,LV=(0)
                                   72 BYTE SAVE AREA 24 PARM AREA
                                                                     1272 03024019
         LA
               R13,X24(R1)
                                   ADDRESS OF SAVE AREA
                                                                     1272 03030019
               R3, LCTJCTAD
                                         JCT ADDRESS FROM LCT
                                                                           03040000
         ST
                                         TO PARAMETER LIST
               R3,4(0,R1)
                                                                           03060000
         51
               R8,0(0,R1)
                                         LCT ADDRESS TO PAR LST
                                                                           03080000
         TM
               JCTJSTAT, INCMSTS
                                    HAS JOB BEEN PREVIOUSLY FAILED
                                                                      099 03080919
         BO
               DSOOK
                                    YES-DON'T DO ANY DSO PROCESSING
                                                                      099 03081819
                                          IS STEP RESTARTING FROM M3150 03082719
         CLC
               SCTPGMNM(EIGHT), RESTART
                                    A CHECKPOINT?
                                                                      099 03083619
```

```
BNE
                 DSOOK
                                       NO- DON'T ON DSD RESTART CHECK
                                                                          099 03084519
                 JCTRSEZ-JCTDSGJB+JCTDSGCR IS DSD RESTART ENVIRONMENT D90 03085419
           TM
                                       CHECK NEEDED?
                                                                          N99 03086319
           HZ
                                       NO-HYPASS LINK TO TEFDSOCR
                                                                          03087219
           LINK
                 EP=IEFDSOCR, MF=(F,(1)) LINK TO LEFDSOCR
                                                                          099 03088119
           ITP
                 94.R15
                                 IS JUB TO RUN
           BNZ
                                                                        M4012 03089119
                 FREEUP
                                 NO - FREE RESOURCES
                                                                        M4012 03090119
                                 YES - GO TO ALLOCATION
                 JCTDSOSM(N3).JCTDSOSM FORCE DSO MSG REBUILD
                                                                        M4012 03091119
           XC.
 DSDGK
                                                                        M2945 03091819
           E0U
           TM
                                                                         099 03092119
                 LCTOPSW1. LCTCAME
                                     TEST FOR CANCELLABLE
                                                                         1272 03092419
           87
                 ALLOCATE
                                     BRANCH IF ALREADY CANCELLABLE
           I R
                                                                         1272 03092719
                 R3,R1
                                     SAVE PARM REGISTER
                                                                         1272 03093019
           ENQ
                 MF=(F+SYSCMD)
                                     ENDUEUE TO MAKE SYSTEM
                                                                         1272 03093319
                                            TASK CANCELLABLE
           LR
                                                                         1272 03093619
                 R1,R3
                                     RESTORE PARM REGISTER
                                                                         1272 03093919
           nΙ
                 CHACT.CHCL
                                     SET CANCELABLE BIT
 ALLOCATE EQU
                                                                         1272 03094219
                                                                         099 03094519
           SR
                 R4.R4
                                      CLEAR REGISTER FOR SWITCH
                                                                         099 03094819
          LINK
                 EP=IEFW21SD,MF=(E,(1))
                                                                         099 03095119
 FREEUP
          EQU
                                                                         099 03095419
                                                                         099 03095719
          ST
                 R2.LCTPAKM3
                                      RESTORE SAVED GWT ADDRESS
                                                                        1272 03096019
          1 R
                 R3,R15
                                           SAVE RETURN CODE
          LR
                                                                              03096319
                 R2.R1
                                           SAVE NEW PARAMETER LIST ADDRESS 03096619
          TΜ
                LCTOPSW1, LCTCANE
                                     TEST FOR CANCELABLE TASK
          87
                                     BRANCH IF CANCELABLE TASK
RESET TO NON-CANCELLABLE
                                                                        1272 03096919
                 1EFSD005
          NI
                                                                        1272 03097219
                CHACT, X255-CHCL
                                                                        1272 03097519
          DEO
                MF=(F,SYSCMU)
                                     RELEASE
 IEFSD005 EQU
                                                                        1272 03097819
                                                                        1272 03098119
* CONDITIONALLY LINK TO IEFDSOWR
                                                                         099 03098419
                                                                         099 03098719
  * * * * * * * * * * *
                                                                         099 03099019
JCTJOBFL EQU
                                                                         099 03099319
               64
                     BIT-1 JOB FLUSH
JCTSTPFL FQU
                                                                         099 03099619
                16
                     BIT-3 STEP FLUSH
  * * * * * * * *
                                                                         099 03099919
                                                                         099 03100219
                                                                         099 03100519
          TM
                JCTRSW2,JCTDSDJB
                                     ARE THERE ANY DSOCR'S FOR JOB
                                                                         099 03100819
          ВZ
                DSOCOMP
                          NO-BYPASS LINK
                                                                         099 03101119
                                                                         099 03101419
         CLC
                SCTPGMNM, RSTRTCK
                                     IS C/R DSDR PHASE BEING
                                                                         099 03101719
                                     FILLOCATTED
         ВE
                                                                        099 03102019
                DSOCOMP
                          YES - SYPASS LINK
                                                                        099 03102319
         OC.
                JCTOSOSM, JCTDSOSM
                                                                        099 03102619
                                       WAS FIRST SMB HANDLED
                                                                        099 03102919
         BN7
                FAILTEST
                                          YES- BYPASS SMB CONSTRUCTION099 03103219
         GETMAIN R, LV=176
                                          GET CORE FOR READ IN AREA
                                                                        П99 03103519
         SI
                R1,N72(,R13)
                                          SAVE POINTER IN EXT PARM
                                                                        099 03103819
         ΙΔ
               R1,N72(,R13)
                                          GET POINTER TO EXT PARM AREAD99 03104119
         MVC
               N4(N3,R1),JCTSMBAD
                                          MOVE IN TTR OF 1ST SMR
         ΜVΙ
               N7(R1),NO
                                                                        099 03104419
                                          ZERO OUT LOW ORDER BYTE
                                                                        099 03104719
         SI
               R1, OMPCL
                                          EXT PARM AREA TO OMPA
                                                                        099 03105019
         MVI
               OMPOP, OMREAD
                                          INDICATE READ
OMGRRW
         MVI
               OMPNC.N1
                                                                        099 03105319
                                          OF ONE RECORD
         LR
                                                                        N99
                                                                           03105619
               R1, R9
                                         R1 MUST POINT TO OMPA
                                                                        099 03105919
         ٢
               R15, IEFOMGRV
                                         GO TO O MANAGER
                                                                        099 03106219
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į,

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03106519
               R14.R15
         BALR
                                                                       099 03106819
         LTR
               R15_R15
                                         HAS READ OR
                                        BRANCH NO THERE WAS ERROR
                                                                       099 03107119
         BNZ
               SD062015
                                                                       (199-03107419
               - R2,R3,R4,R5,R6,R7,R8 ARE BEING SAVED
                                                                       099 03107719
  Ν
         T F
                                                                       0108019
                                        STORE SOME REGISTERS TO
                                                                       099 03108319
         STM
               R2.R8.NC(R13)
                                         ALLOW FOR WORK REGISTERS.
                                                                       03108619
               RMPOP, OMWRIE
                                         EAS WRITE DONE
                                                                       099 03108919
         CLI
                                         H-YFS.
                                                                       099 03109219
         BE
               SMBOUT
               R2,QMPCL
                                         GET POINTER TO EXTBARM AREA 099 03109519
               R2, NO(R2)
                                         GET POINTER TO SMB
                                                                       099
                                                                           03109819
                                        CLEAR HI ORDER BYTE
                                                                       099 03110119
         LA
               R2,NO(R2)
                                                                       099 03110419
         USING SMBDSKAD, R2
               R3.SMBHDR+1
                                    GET
                                         DEFSET TO SMBMESSAGE AREA
                                                                       099 03110719
         LA
                                         INCREMENT FOR R3
                                                                       099 03111019
         LA
               R3,L'DSOMSG(,R3)
                                    GET
                                                                       099 03111319
               R8,CVTPTR
                                         LOCATION OF CVT
         USING
                IEFCVT,R8
                                                                       099 03111619
                                         ADDR OF MAST SCHED DATA AREAD99 03111919
               RR, CVTMSER
         USING BASE + RB
                                         M/S BASE REG
                                                                       D99 03112219
                                                                       099 03112519
         ENQ
               MF=(F, DSOCHNO)
                                    END ON DSOCK CHAIN
                                                                       Π99 03112819
                                         FIRST DSOCB ADDR
                                                                       099 03113119
               R8,BADSO
         USING TEFDSOCB, R8
                                         SET BASE FOR DSOCB
                                                                       099 03113419
DSOCBLP
               R8,NO(R8)
                                         CLEAR HIGH ORDER BYTE
                                                                       1199 03113719
         LΑ
                                         ANY MORE DSOCKS
                                                                       099 03114019
         LTR
               R8.R8
               WRIDUT
                                         NO- BRANCH TO WRITE SMB
                                                                       099 03114319
         BZ
         CLC
               DSOKEY + JCTJSRNO
                                         IS THIS A SELECTED DSOCB
                                                                       099 03114619
         BE
               MSGSETUP
                                         YES OD TO SET UP MESSAGE
                                                                       099 03114919
                                                                       099 03115219
               R8, DSDNXT
                                         GET A OF NEXT DSOCH
NXTDSO
                                           + GO TO LOOP
                                                                       099 03115519
               DSOCBLP
         B
MSGSETUP
         FOU
                                                                       099 03115819
                                         TEST IF DSOCK NOT TO BE ALLCOPP 03116119
         TM
               DS0IND1+DS0CR+DS0NO0P
         BN7
               NXTDSO
                                         IF YES-GET MEXT DSOCH
                                                                       099 03116419
         MVC
               NO(N1,R3),DSOSCLS
                                      MOVE SYSOUT CLASS TO MESSAGE
                                                                       099 03116719
         MVI
               N1(R3),COMMA
                                        AND FOLLOW IT BY COMMA
                                                                       099 03117019
                                         INCREMENT R3 BY 2
                                                                       099 03117319
         LΑ
               R3,N2(R3)
                                         AND CONTINUE LODP
                                                                       099 03117619
               NXTDSD
                                                                       099 03117919
WRITOUT
         FOLI
         DED
               MF=(E,DSOCBNO)
                                    DEO ON DSOCH CHAIN
                                                                       099 03118219
               R4,SMBHDR+1
                                         SET UP TO WRITE OUT MESSAGE
                                                                       099 03118519
         LA
               R4,L DSOMSG(,R4)
                                         SET R4 TO MATCH WITH R3
                                                                       099 03118819
         LA
         CR
               R3,R4
                                        FOUAL MEANS NO MESSAGE
                                                                       099 03119119
         BE
               SMBOUT
                                        LB NOT TO WRITE MESSAGE
                                                                       099 03119419
                          ZERO NXT AVAILABLE BYTE INCASE
         MVI
               NO(R3)+NO
                                                                     M2945 03119719
                           MSG IS BEING REBUILT FROM A RESTART
                                                                     M2945 03120019
                                         DECREMENT COUNTER BY 1
         BCTR
               R3,R0
                                                                       099 03126219
         MVI
               NO(R3), PERIOD
                                  OVERLAY LAST COMMA WITH PERIOD
                                                                       099 03126319
                                         GET SMB HEADER LENGTH
               R4,SMBHDR
                                                                       099 03126419
         LΔ
         SR
               R3,R4
                                         CONVERT R3 TO MSGLWGTH
                                                                       099 03126519
         STC
               R3, SMRMSGLN
                                          + STORF IT IN SMRMSGLNGTH
                                                                       099 03126619
                                INCREMENT BY 1 TP GET NEXT AVAIL BT
                                                                       099 03126719
               R3,N1(,R3)
         LΔ
         STH
               R3, SMBNABPT
                                          INDICATE NEXT AVAILABLE BYTED99 03126819
         L.A
               R3,SMMHDR+1
                                    GET
                                         DEESET TO SMBMESSAGE AREA
                                                                       099 03126919
         MVC
               NO(L'DSOMSG,R3),DSOMSG MOVE IN MESSAGE HEADER
                                                                       099 03127019
               OMPOP, OMWRIE
                                          INDICATE WRITE OPERATION
                                                                       (199 03127119
         MVI
                                                                       099 03127219
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- R2.R3.R4.R5.R6.R7.R8 ARE BEING RESTORED
                                                                        099 03127319
         T
      13
                                                                        699 03127419
                                                                        099 03127519
                                         LOAD THE REGS
         I M
                R2, RR, NC(R13)
         ú
                OMGRAP
                                                                        D99 03127619
SMBOUT
         EQU
                                                                        099 03127719
                JCTDSOSM(N3), JCTSMBAD HAVE 1ST SMB POINTED TO TO
                                                                        099 03127819
         MVC
                                          INDICATE SMB WAS HANDLED.
                                                                        099 03127919
                                                                        099 03128019
                R1.OMPCL GET EPA
                R1.NO(,R1)
                               GET CORE ADR
                                                                        099 03123119
         FREFMAIN R.LV=176.A=(1)
                                                                        099 03128219
                                                                        099 03128319
                                                                        099 03128419
   N
         T
                  R2,R3,R4,R5,R6,R7,R8 ARE BEING RESTORED
      ()
                                                                        099 03128519
                R2.R8.NC(R13)
                                         LOAD THE REGS
                                                                        099 03128619
         I M
                                                                        099 03128719
         DROP
               R2
                                                                        099 03128819
   RE-SET LCT BASE
                                                                         099 03128919
                                                                        099 03129019
         USING IFFLOT.R8
                                                                        099 03129119
                                                                        099 03129219
FAILTEST
          E OU
                JCTJSTAT, JCTJOBEL+JCTSTPFL HAS JOB/STEP FAILED
                                                                       M3164 03129319
         TΜ
                          YES-HYPASS LINK
                                                                        N99 03129519
         HNZ
                DSOCOME
                                                                        099 03129619
         LTR
                R3,R3
                           ANY ALLOCATION ERRORS
                                                                         099 03129719
                DSOCOMP
                           YES- BYPASS LINK
                                                                         099 03129819
         BNZ
                                                                        n99 03129919
                                                                         099 03130019
         TM
                SCISTAT2.SCIDSOCL
                                     DID TEEDSOAL IN ALLUCATION
                                                                         099 03130119
                                     FIND WORK FOR LEFDSOWR
                                                                         099 03130219
         3 Z
                DSOCOMP
                          NO - BYPASS LINK
                                                                         099 03130319
                                LINK TO IFFUSOWR
                                                                         N99 03130419
                                                                         099 03130519
                                GET 8 BYTE PARM AREA
         LA
                R1,N72(,R13)
                                                                         099 03130619
         ST
                R8.NO(.R1)
                                LCT ADR
                                                                         099 03130719
                N4(N4,R1), IEFOMGRV OMGR ADR
                                                                         099 03130819
         MVC
                                                                         099 03130919
1,0
                EP=1EFDSOWR,MF=(E,(1))
                                                                         099 03131019
         IINK
χ'n
                                                                         099 03131119
                                                                         099 03131219
    * RETURN CODES AND SETTING R3
                                                                         099 03131319
×
          1. LINK TO JEFDSOWR ETC IS BYPASSED IF ALLOCATION/JEFDSOCR 099 03131419
             RETURNS A NON-ZERO RETURN CODE. SEE ABOVE CODE.
                                                                         099 03131519
          2. IF ZERO RETURN CODE FROM ALLOCATION THEN -
                                                                         099 03131619
              A. IF IFFDSOWR ENCOUNTERS A JOBO I/O ERROR A
                                                                         099 03131719
                 RETURN CODE OF 12 WILL BE SENT BACK INDICATING
                                                                         099 03131819
                 JOB SHOULD BE ABENDED WITH A 'OBO'. R3 WILL
                                                                         N99 03131919
                 BE MADE NEG IN THIS CASE SO THIS PROG CAN
                                                                         П99 03132019
                 DO FREEMAIN ETC BEFORE ABEND.
                                                                         099 03132119
                 IF TEFDSOWR ENCOUNTERS A PERMANENT I/O FRROR
                                                                         099 03132219
                 WHILE WRITING JOB SEPARATORS OR SMB'S TO A
                                                                         099 03132319
                 DIRECT DEVICE THEN A RETURN CODE OF 4 WILL
                                                                         099 03132419
                 BE SENT BACK INDICATING THE JOB IS TO BE FAILED.
R3 WILL BE SET PLUS AND WILL CAUSE THIS PROG TO
                                                                         099 03132519
3,5
2,4
                                                                         099 03132619
                 TAKE THE SAME ROUTE THAT IS TAKEN WHEN ALLOCATION
                                                                         099 03132719
                 RETURNS A NON-ZERO RETURN CODE.
χ
                                                                         099 03132819
                                                                         099 03132919
          LNR
                R3,R15
                           PRIME FOR POSSIBLE ABEND AND SAVE -
                                                                         099 03133019
```

```
NOTE + A ZERO VALUE REMAINS UNCHANGED
                                                                        099 03133119
                                  AND PLUS
                                                                        099 03133219
         LTR
               R15,R15
                          ANY ERRORS
                                                                        n99 03133319
         BZ
                DSOCOMP
                          NO-CONT MAINLINE
                                                                        1199 03133419
                                                                        099 03133519
                          YES-SET-UP TO TEST COND CODE
         LΑ
               R1,NR
                                                                        099 03133619
                          TEST IF ABOVE/BELOW 8
         CR
               R15,R1
                                                                        099 03133719
         вн
                DSOCOMP
                          HIGH-COND CODE 12 = JOBO I/O FRROR
                                                                        099 03133819
                          KEEP R3 NEG FOR ABEND LATER
                                                                        n99 03133919
   COND CODE 8 NOT IN USE
                                                                        099 03134019
                          LOW-COND CODE 4 = I/O ERROR DN DSO
         LR
               R3,R15
                                                                        099 03134119
                          DEVICE WHILE WRITING SMB'S, ETC. PRIME
                                                                        099 03134219
                          R3 TO BYPASS EXECUTION OF P/P.
                                                                        N99 03134319
                          R3 NOW POSITIVE
                                                                        099 03134419
         O I
                JCTJSTAT , INCMSTS
                                     TURN ON JOB FAIL BIT
                                                                        099 03134519
                                                                        099 03134619
DSOCOMP
                          CONT MAINLINE
         EQU
                                                                        099 03134719
                SCTSTAT2.N255-SCTDSCICL
                                          RESET FOR TERMINATION
         ΝI
                                                                        1199 03134819
                                                                        099 03134919
         LR
               R1.R13
                                          RESTORE ARSA POINTER.
                                                                       CR17 03141017
         FREEMAIN R.LV=80.A=(1).SP=TCORE FREE SAVE AND PARM AREA
                                                                        099 03141219
                                                                        099 03141419
         LTR
               R3, R3
                                          SHOUD ATTACH BE BYPASSED.
                                                                       CR17 03141619
               IEFSD010
         ΗZ
                                                                       CR17 03141819
                                          NO.
                                   ADDRESS OF INIT'S TOR
               R1, LCTTCBAD
                                                                       1272 03142019
         L
               R14, TCBJSCB(R1)
                                   JOB STEP JSCH
                                                                       1272 03142219
                                   INIT'S JSCB
               RO.LCTJSCH
                                                                       1272 03142419
         ST
               R14, LCTJSCB
                                    JOB STEP JSCB IN LCT
                                                                       1272 03142619
         ST
               RO.TCBJSCB(R1)
                                   INIT'S USCH IN INIT'S YCH
                                                                       1272 03142819
               R14,LCTEXIT
                                   ADDRESS OF EXIT LIST
                                                                       1272 03143019
         LA
               R14,XO(R14)
                                   ZERO HIGH ORDER BYTE
                                                                       1272 03143219
         TEST FOR EXIT LIST TO BE REMOVED IN R20 ****
                                                                       1272 03143419
         LTR
               R14 - R14
                                   TEST FOR EXIT LIST
                                                                       1272 03143619
                                   BRANCH NO EXIT LIST
               FREEGWT
         ΒZ
                                                                       1272 03143819
         MVI
               IELRINCD(R14), RINCODE4 SET RETURN CODE TO 4
                                                                       1272 03144019
FREEGWT
         EQU
                                                                       1272 03144219
         LΛ
               R14,TCORE
                                     YES. LOAD SUBPOOL NO.
                                                                       CR17 03145017
         SLL
               R14,24
                                                                       CR17 03146017
         LA
               RO, GPMINPAR+4-GETPTWT
                                          LOAD LENGTH OF GETPART WK
                                                                       LS17 03146119
                                          LOAD SUBPOOL + LENGTH
         NR
               RO, R14
                                                                       LS17 03146219
               R1, LCTPARM3
                                   LOAD ADDRESS OF GWT
                                                                       1272 03146319
         FREFMAIN R, LV=(0), A=(1)
                                         FREE ITS CORE
                                                                       LS17 03146419
               R3.R3
                          TEST REG STATUS
         LTR
                                                                       099 03146519
         BM
               SD062015
                          NEG REG - JOHO I/O ERROR FROM
                                                                        099 03146619
                          IEFDSOWR, GD TO ABEND
                                                                       П99 03146719
         LTR
               R4, R4
                                     IS THIS ABNORMAL RETURN FROM
                                                                        099 03146819
                                     IEFDSOCR?
                                                                       099 03146919
         B7
               T0165
                                     NO-GO TO IEFSD165
                                                                        П99 03147019
         USING IEZJSCB,R1
                                     JSCB ADDRESSABILITY
                                                                       1199
                                                                            03147119
                                   ADDRESS OF JOB STEP JSCB
               R1, LCTJSCB
                                                                       (199
                                                                            03147219
                                   ADDRESS OF WIP CONTROL BLK
               R14.JSCBWTP
                                                                       099
                                                                            03147319
         FREEJSCB
                   SYSTEM=MVT
                                   FREE JSCR
                                                                            03147419
                                                                       099
         DRDP
               R 1
                                                                       1199
                                                                            03147519
         LR
               R1,R14
                                   ADDRESS OF WIPCH IN RI
                                                                       099
                                                                            03147619
         LA
                                   SUBPOOL 253
               R14.TCORE
                                                                       099
                                                                            03147719
         SLL
               R14, X24
                                   SUBPOOL IN HIGH ORDER BYTE
                                                                       099
                                                                            03147819
         LΔ
               RO.WTPCBSIZ
                                   SIZE OF WIPCH
                                                                       099
                                                                            03147919
```

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DR
                                  SUBPOOL AND SIZE IN REG O
                                                                    099 03148019
               40,R14
         FREEMAIN R.LV=(0).A=(1)
                                  EREE WIPCH
                                                                    nau
                                                                         03148119
               R15.1FF50161
                                   TEESDIGT LINKAGE
                                                                     099 03149819
:::
                                   RETURN TO SELECT ANOTHER JOB
                                                                     B99 03150019
         1 12
               R1,88
                                                                   M4012 03150219
                              LCT AUR
         нR
               415
                                   XCTL TO IFFSD161 VIA LINKAGE
                                                                     099 03150419
r;
                                   MODUL F
                                                                     099 03150619
         Fau
TILL 65
                                                                     099 03150819
               R15.TFF51165V
                                                                    CR17 03151017
                                        RESTORE PARAM LIST PTR.
         LR
               R1.R2
                                                                    CR17 03152017
         HR
               RIS
                                        GO TO TEESDO65
                                                                    CR17 03153017
CR17 03233017
* POILD PARAM LIST FOR IEPSO514 TO WRITE OUT TIOT & GET REG SAVE A CRI7 03273017
                                                                    CR17 03313017
CR17 ()3353017
[FESO()]() FOU
                                                                    CR17 03393017
         CL I
               CHVCO.SPROGRAM
                                  CHECK FOR STARTED PROGRAM
                                                                    1272 03394019
         HME
               1FFS0011
                                  BRANCH NOT A STARTED TASK
                                                                    1272 03395019
               R10.12(R2)
                                  LOAD TIDT LIST PTR
         ŀ
                                                                    1272 03396019
                                  PIR TO TIOT
               R10.0(R10)
                                                                    1272 03397019
TITIESROH CLC
               TIBE ODNA (XA) . LEERDER IS ODNAME TEERDER
                                                                    1272 03398019
         M.L
               UCHADDR
                                  BRANCH YES
                                                                    1272 03399019
         SR
               43.43
                                  ZERO REGISTER
                                                                    1272 03400019
         10
               R3.TIDELNGH
                                  LENGTH OF TIDT ENTRY
                                                                    1272 03401019
                                  TEST FOR END OF TIGT
         1.19
               R3.R3
                                                                    1272 03402019
         H 7
               MORDER
                                  BRANCH END OF TIOT
                                                                    1272 03403019
         ÁΚ
               R10.R3
                                  ADD ENTRY LENGTH TO BASE
                                                                    1272 03404019
         н
               TIPESROR
                                  TEST NEXT DD ENTRY
                                                                    1272 03405019
                                  LOAD UCH POINTER
UCRADOR
         L
               R3.1IOESTIB
                                                                    1272 03406019
         LΛ
               R3.XO(R3)
                                   7FRO HIGH ORDER BYTE
                                                                    1272 03407019
               23.63
                                                                    1272 03408019
         LTR
                                  TEST FOR ZERO UCH REQUEST FOR
2,5
                                  DUMMY DEVICE
                                                                    1272
                                                                        03409019
         H.7
               VORDER
                                  PRANCH IF ZERO
                                                                    1272 03410019
         USING UCHOB-R3
                                  ADDRESSABILITY FOR UCB
                                                                    1272 03411019
         (.LT
               HICKID.MAINUCK
                                   IS IT A MAIN UCB
                                                                    1272 03412019
         HNE
               MINDRUCK
                                  BRANCH IF DATACELL
                                                                    1272 03413019
MOVENAME MVC
               CHUMIT(X3), UCBNAME
                                   MOVE UCH NAME INTO CSCB
                                                                    1272 03414019
         TM
               LCTINTSW.LCTSTART
                                  WAS TASK NAME ON COMMAND
                                                                    1272 03415019
                                  PRANCH NAME SPECIFIED
         H.7
               TEESDOLI
                                                                    1272 03416019
         MVI
               CHKEY+BLAMK
                                  MOVE IN BLANK
                                                                    1272 03417019
               CHKEY+X1(X7)+CHKEY PLANK CHKEY FIELD
         MVC
                                                                    1272 03418019
         MVC,
               CHREY(X3) + UCHNAME MOVE UCH NAME INTO CSCH
                                                                    1272 03419019
         н
               TIDIKEY
                                                                    1272 03420019
         DRDD
               R3
                                                                    1272 03421019
MINORUCH LH
               R4.DCFLBBNR-DATACELL(R3) PICK UP BIN NUMBER
                                                                    1272 03422019
               R4.X1(R4)
                                   INITIALIZE FOR LOOP
         L A
                                                                    1272 03423019
CHKSUR
         HCT
               R4.SUBUCBLN
                                  SUBTRACT BRANCH ON ZERO
                                                                    1272 03424019
         ς
               R3,MAINLGTH
                                  SUPTRACH MAIN UCH LENGTH
                                                                    1272 03425019
         н
               MOVENAME
                                                                    1272 03426019
SUBUCBLM
         ς
               R3, SUBLIGTH
                                  SUBTRACT SUB UCH LENGTH
                                                                    1272 03427019
         н
               CHKSUB
                                  CHECK FOR MORE SUBCELLS
                                                                    1272 03428019
MORDER
         TM
               LCTINTSW.LCTSTART
                                  WAS TASK NAME ON COMMAND
                                                                    1272 03429019
         13.7
               IFESD011
                                  BRANCH NAME SPECIFIED
                                                                    1272 03430019
         M. A.C.
               CHKFY(X8) . CHCLS
                                  MOVE BRUC NAME INTO ID FIFED
                                                                    1272 03431019
TIDTKEY
         l.
               R10.LCTTCBAD
                                  ADDRESS OF INIT'S TOR
                                                                    1272 03432019
               RIO.TCHTIO(RIO)
                                  TIDT ADDRESS IN TCH
                                                                    1272 03434010
         l.
```

```
TIOCSTEP(X8), CHKEY TIOT STEP NAME = CHKEY
                                                                   1272 03435019
        HVC
                                                                   1272 03435214
                                  FOVE TIUE FIZE BOTWIFK
         L
                                                                   1272 03635619
               R10,XD(R10)
                                  PTR TO TIOT
               TINGSTEP (XE) . CHKEY TINT STEP NAME = CHKEY
                                                                   12/2 03435619
         MVC
                                                                   1272 03436019
TEESDOIL EOU
                                        GM 24-RYTE PARM LIST & 72- CK17 0346321/
                    R.LV=96.SP=TCORE
         GETMAIN
                                         REG SAVE AREA.
                                                                   CR17 03464017
               R13,24(R1)
         LΔ
                                        IST WORK - OMPA PIR.
                                                                   CR17 03464817
         ST
               R9,0(R1)
                                        2ND WORD - 7FROES.
                                                                   CR17 03465617
               4(4,R1),4(R1)
         ХC
                                        GET TIOT LIST ADDR.
                                                                   CR17 03466417
               R7,12(R2)
                                        3RD & 4TH WORDS-TIDT ADDR+ CR17 03467217
         MVC
               A(H,R1),()(R/)
                                        STH & ATH WORDS - ZERDES.
                                                                   CR17 03468017
               16(8.R1).16(R1)
         XC
                                                                   CR17 03448817
               R7, REGSAVE+72
                                        REMOTE PARAM AREA.
         LA
                                                                   CP17 03469617
               R7.UMPCL
         ٩T
                                        INDICATE WRITE
                                                                   CR17 03470417
         MVI
               OMPOP, 3
                                        SAVE PARAM LIST & REG AREA CRIT 03471217
         LR
               R7.R1
                                                                   CR17 03472017
               R15 + SD514HTF
                                                                   CR17 03472817
                                        GO 10 TEES0514
         HALR
               R14,R15
                                        ANY 1/D FRRUR.
                                                                    CR17 03473617
         LTR
               R15,R15
                                                                   CR17 03474417
                                        YFS.
         HN7
               SD062015
                                        MII.
                                                                    CR17 03475217
         LR
               R1.R7
                                        RESTORE JCT BASE REG.
                                                                   CR17 03476017
               R7,4(R2)
                  STINT(4),4(R1) CONTROL TABLE ITR TO JCT. CR17 03476817
R.LV=96,A=(1),SP=TCORE FREE PARM LIST & REG AR CR17 03477617
         MVC
               JCTSTINT(4),4(R1)
         FREEMAIN
* 03500000
                                                                   CR17 03520017
* WRITE OUT JCT & SCT TO ITS ORIGINAL POSITION ON THE GUEVE+AFTER
* SETTING CKPT/RESTART SWITCHES IN JCT FROM SCT.
                                                                   CR17 03540017
                                                                       # 03560000
# 03600000
                                                                         03640000
17
                                        SET STEP STARIED BIT IN THE SCT 03660000
               172 (R6), X'RO!
         ΠI
                                                                   CR17 03662017
                                   2ND WORD OF TIMER AREA
         ΙΔ
               R1.LCTTMWRK+4
                                                                    CR17 03664017
               SCISTIME.CFO
                                   IS THIS A PROC STEP
         CLC
                                                                         03664418
                                       24D WORD OF TIMER AREA
               R1.LCTTMWRK+4
         LA
                                       IS THIS A PROC STEP
                                                                         03664818
               SCTSTIME, CFO
         CLC
                                       THE USER SPECIFIED TIME=
                                                                         03665218
               STEPLEET
                                                                         03665618
                                       FOR THE WHOLE PROC. THAT
z,t
                                       APPLIED TO 1ST STEP. WITH
3%
                                       WE SHALL USE WHAT IS LEFT.
                                                                         03666418
3,5
                                       ELSE MOVE IN TIME
                                                                         03666818
               1(3,R1),SCISTIME
         MVC.
                                                                         03667218
STEPLEFT EQU
                                       MOVE TIME REMAINING TO SCT
                                                                    SME1 03667618
         MVC
               SCISTIME(3),1(R1)
                                       IND THAT TIME VALUE IS
                                                                    SMET 03668018
         MVI
               LCTTMWRK+DEC8, HEXOD
                                            FOR STEP
                                                                    SME1 03668418
                                       GET JOB TIME LIMIT
                                                                    SME1 03668818
               R14, JCTJMRTL
                                                                    SME1 03669218
         SRL
               R14,DEC8
                                       IS THERE A JOB TIME LIMIT
                                                                   M4137 03669318
               R14,R14
         LTR
                                        MO. USE STEP TIME IN SCT.
                                                                   M4137 03669418
         BZ
               IEFS0015
               R14,HOURS24
                                       DOES ORIG JOB TIME=1440
                                                                         03669618
         CL
                                                                         03670018
                                       YES
         BE
               LONGJOB
               R14, LCTTMWRK
                                       GET JOB TIME LEET
                                                                    SMF1 0367041H
                                                                    SME1 03670818
                                       SET TO ZERO IE MINUS
         ANM
               NOTMINUS
                                                                    SME1 03671218
         SR
               R14,R14
                                                                    SMF1 03671618
NOTMINUS FOU
               z,c
```

```
R14, LCTTMWRK+DFC4
                                         J. TIME LEFT GT S. TIME
                                                                       SMF1 03672018
                                              NEEDED
                                                                       SMF1 03672418
                                             - USE STEP TIME FROM
                                                                       SMF1 03672818
         HNE
                TEESDO15
                                                                       SMF1 03473218
                                               SCIT
LUNGJOH
                                                                            03673618
         FOU
                                         NO - USE JOB TIME LEFT IND THAT TIME IS FOR JOB
                                                                       SMF1 03674018
                R14.DFCO(R1)
         ST
                                                                       SMF1 03674418
         MVI
                LCTIMWRK+DFC8.HEX80
IFES0015
         FOL
                                                                       CR17 03676017
                R9. WMGR1
                                          A MG PAR ARFA
         ΙΔ
                                                                            03680000
         LA
               R13.RFGSAVE
                                          REGISTER SAVE AREA
                                                                            03700000
                                          REMOTE PARAMETER AREA
         LA
                R1.REGSAVE+72
                                                                            03720000
                                          ADDRESS OF REMOTE PARAMETER LST 03740000
         ST
                RI.OMPCL
         MVI
                OMPOP,3
                                          WRITE INDICATOR
                                                                            03760000
         MVI
                OMPCL #2
                                          INDICATE MULTIPLE OPERATION
                                                                            03780000
                R7,4(0,R2)
                                          LOAD JCT BASE REGISTER
                                                                            03800000
         ST
                R7,0(0,R1)
                                          JCT CORE ADDRESS TO QUEUE MGR
                                                                            03820000
236
                                          REMOTE PARAMETER AREA
                                                                            03840000
                                          SCT CORE ADDRESS TO QUEUE MGR
         ST
                R6.8(0,R1)
                                                                            03860000
                                          REMOTE PARAMETER AREA
                                                                            03880000
         NI
                JCTRSW2.X'C7'
                                          KNOCK OFF BITS 2.3 AND 4.
                                                                       CR17 03886017
                                     LOAD MASK TO GET CAR BITS
LOAD MASK TO GET CAR BITS
                                                                       CR17 03892017
                R4.MASK
         ΙΔ
                XIBEL
                                                                       CR17 ()3898()17
MASK
         FOU
                                                                       CR17 03904017
                R10,R10
                                     ZERO REGISTER.
                                                                       CR17 03910017
         10
                R10.SCTSSTAT
                                     LOAD STATUS INDICATORS
         NR
                R10.R4
                                     GET RID OF ALL BITS BUT C/R
                                                                       CR17 03916017
                R10,SETHITS
                                     EXEC INSTRUCTION IN SET BITS
         μX
                                                                       CR17 03922017
                                                                       CR17 03932017
         MVC
                4(4,R1),JCTDSKAD
                                          JCT TIR IN OMPA.
         MVC
                12(4,R1),SCIDISKA
                                          SCT TTR TO OMPA.
                                                                       CR17 03972017
                                          SCT TIRO
         MVI
                                                                       CR17 04012017
                15(R1),X'00'
                R1,R9
                                          ADDRESS OF O MGR PARAMETER AREA 04060000
         LR
                R15 + TEFOMGRV
                                          ADDRESS OF O MGR
                                                                             04080000
         1
                R14,R15
                                          HAVE THE TABLES WRITTEN
                                                                            04100000
         BALR
                                          ZERO OUT NUMBER OF OPERATIONS
                DMPCL,0
         MVI
                                                                            04120000
         н
                SD062010(R15)
                                          CHECK RETURN CODE
                                                                             04140000
$0062010 B
                $0062020
                                          RETURN CODE OK
                                                                             04160000
                                          NO WORK, IMPOSSIBLE ON WRITE
         BC
                0.50062010
                                                                            04180000
                                          NO SPACE - IMPOSSIBLE, THESE
                                                                             04200000
         BC
                0.SD062010
                                          TABLES ARE BEING WRITTEN TO
                                                                             04220000
                                          ASSIGNED SPACE
                                                                             04240000
*******
                                 I/O ERROR
                                                                             04260000
*****************************
                                  CODE TO PROCESS THIS CONDITION
                                                                             04280000
               R1+X*0B0*
SD062015 LA
                                           SHOULD BE PLACED HERE.
                                                                       CR17 04300017
                                  TEMPORARILY. ABEND
                R1,12
                                                                            04320000
         SLA
         ABEND (1), DUMP
                                                                             04340000
****************
                                                                       CR17 04340717
               LCTPARM4(X4)+LCTPARM4 ZERO PARM4
50062020 XC
                                                                       1272 04341719
                R3.LCTPARM3
                                     SET UP ADDRESSABILITY FOR
                                                                       1272 04342719
         L
                                                                            04343719
                                         PART WORK TABLE
                                                                        1272
               GFIPIWI . B3
                                    GET INITIATOR'S TCH.
         l.
                R14-LCT CBAD
                R1 , TCHTIM(R14)
                                    BUMP TO THE TIOT.
         CLI
                0/-14),014
                                    FIXED INITIATOR?
                51062040
                                    YES - BRANCH TO KEEP CURRENT REGION.
                                     REGION SIZE FOR P/P
                M4, GPSIZEPP
                                                                       1272 04344719
         Ł
         LTR
                R4,R4
                                     TEST FOR ZERO SIZE
                                                                       1272 04345719
                                     BRANCH - KEEP REGION
                                                                       1272 04346719
                50062040
         BE
         MVI
                GPSUBP, POOL 246
                                     REPLACE PARTITION SUPPOOL
                                                                       1272 04347719
                LCTINTSW, LCTIHIER
                                                                       1272 04348719
                                     TEST FOR HIERARCHY
         TM
```

```
1272 04349719
        вп
              $0062022
                                  HRANCH HIFKARCHY ONE
              GPADDHO+X1(X3), GPADDHOR+X1 O OR SPECIFIC ADDR
        MVC
                                                                  1272 .04350719
              GPS17FHO+X1(X3);GPS17FPP+X1 MOVE REGION SIZE
                                                                  1272 04351719
        MVC.
                                                                  1272 04352719
              SD062040
30062022 MVC
              GPS17EH1+X1(X3),GPS1ZEPP+X1
                                          MOVE REGION SIZE
                                                                  1272 04353719
                                                                  1272 04354719
              50062040
S0062040 EQU
                                                                  L517 04360017
                                                                  LS17 04360317
              R14, TCHRF
                                       LOAD SURPOOL NO
        IΔ
              R14,24
                                                                  LS17 04360617
         SLL
              RO.GPMINPAR+4~GETPTVT
                                      LOAD LENGTH DE GETPART WK
                                                                  LS17 04360917
        ΙΔ
        OR
              RO, R14
                                       LOAD SUPPOOL + LENGTH
                                                                 LS17 04361217
         110
              GPSUBP, 246
                                       DO WE REPLACE THE PARTITIO LS17 04361517
                                                                  LS17 04361817
              SD162035
        RE
                                       YES
              R1,LCTPARM3
                                       ADDRESS OF GETPART WORK TA LS17 04362117
        FREEMAIN R, LV=(0), A=(1)
                                       FREE ITS CORE
                                                                  1.517 04362417
        ХC
              LCTPARM3(X4), LCTPARM3
                                     ZERO GWT POINTER
                                                                  1272 04362519
                                                                  LS17 04362717
              50062030
S0162035 ST
              RO, LCTPARM4
                                       SET UP FOR EREEMAIN IN 1FF CR17 04363017
SD062030 FQU
                                                                  CR17 04364517
                                                                  1272 04364619
        DRUB
              R3
        USING IHADCH, R3
                                                                  1272 04364719
CR17 04365117
* GET CORE FOR THE USER PARAM LIST, BUILD PARAM LIST, SET OP THE PRO CR17 04365417
* INTERFACE AND SAVE THE ADDR IN REGISTER 4.
                                                                  CR17 04365717
                                                                  CR17 04366017
ĽΗ
              R3,SCTSEXEC
                                       GET CORE FOR THE MOLDE USE CRIT 04366617
        LA
              RO.8(0.R3)
                                      PLUS 8 FOR GETMAIN
                                                                18428 04366917
        LΔ
              R14, TCORE
                                                                  CR17 04367217
         SLL
              414,24
                                                                  CR17 04367517
                                                                  CR17 04367817
        CIR
              R(),R14
                                                                  CR17 04368117
        GETMAIN
                   R.LV=(0)
                                       GET USER PARAMS CORE.
                                       SAVE ADDR IN REG 4.
              R4.R1
                                                                  CR17 04368417
        1 R
         ST
              R3,4(0,R1)
                                      LENGTH TO LIST
                                                                 18428 04368717
              RO,4(R1)
                                       ADDR OF LENGTH FIFLD IN LI CR17 04369017
        ΙΔ
         ST
              RO,0(R1)
                                                                  CR17 04369317
         ΠI
              0(R1),128
                                       SET HIGH DROPK BIT TO 1.
                                                                  CR17 04369617
         BCTR
              R3+0
                                                                  CR17 04369917
         LTR
              R3,R3
                                                                  CR17 04370217
                                                                  CR17 04370517
              SD06220
        BM
                                                                  CR17 04370817
        LA
              RO,176
        GETMAIN R.LV=(0)
                                       GEYMAIN FOR READ BUFFER
                                                                  CR17 04371117
        LR
              R5,R1
                                       SAVE FOR ERFEMAIN
                                                                  CR17 04371417
              R9.0MGR1
                                       O MNGR PARAMETER AREA
                                                                  CR17 04371717
        IΛ
              R13, REGSAVE
                                       REGISTER SAVE AREA
                                                                  CR17 04372017
        LA
                                      REMOTE PARAMETER AREA
        LA
              R1,REGSAVE+72
                                                                  CR17 04372317
                                                                 CR17 04372617
                                      STORE ADDR OF REMOTE PARAM
              R1,0MPCL
         ST
        MVI
              OMPOP,4
                                       READ INDICATOR
                                                                  CR17 04372917
                                       READ ONE RECORD
        IVM
              DMPNC,X 01
                                                                  CR17 04373217
                                      STORE BUFFER ADDRESS
         ST
              R5,0(0,R1)
                                                                  CR17 04373517
         MVC
               4(4,R1),SCTXHTTR
                                      MOVE TTR
                                                                  CR17 04373817
                                       ADDRESS OF O MGR PARAMETER CR17 04374117
        I R
              R1.R9
              R15, IEFOMGRV
                                       ADDRESS DE D MNGR
                                                                  CR17 04374417
        RALR
              R14.R15
                                       READ THE RECORD.
                                                                  CR17 04374717
         ΕX
              R3, LEEMOVE1
                                                                  CR17 04375017
         LR
              R1.R5
                                      RESTORE POINTER
                                                                  CR17 04375317
```

```
CR17 04375617
        ΙΔ
              RO.176
                                                                  CR17 04375917
         FREEMAIN R.LV=(0).A=(1)
                                                                  CR17 04376217
S008220
         FOLL
              376
              R3.OMCAP
                                       PTR TH IRACK STACK INFO
                                                                 11404 04380914
                                       PTR TO STACK
                                                                 11404 04381814
              R3,0(R3)
         L
                                       ZERO HI ORDER BYTE
                                                                U11404 04382714
              R3,0(R3)
         ΙA
                                       TEST IF STACK FXISTS
                                                                 11404 04383614
         LTR
              R3.R3
         нĘ
              $006225
                                       NO - BRANCH
                                                                 11404 04384514
                                                                       04385414
                                       PTR TO SAVE AREA IN STACK 11404 04386314
         LR
              R13,R3
                                 ZERO OP CODE FOR PURGE RIN
                                                                 11404 04387214
         ХC
               OMPOP(1),OMPOP
              81,89
                                       PTR TH OMGR PARM AREA
                                                                 11404 04388114
         LR
                                       ADDR OF STACK PURGE PGM
                                                                 11404 04389014
               R15,SD06250
         L
                                       ON TO PURGE+FREE STACK
                                                                 11404 04389914
         HALR
              R14,R15
                                                                       04390814
110
                                       SAVE RETURN CODE
                                                                 11404 04391714
         LR
               R3,R15
               R1.R13
                                       PTR TO RETURNED SAVE AREA
                                                                 11404 04392614
         LR
                                                                 11404 04393514
         FREEMAIN R.LV=72.A=(1)
                                       FREE AREA
                                       RESTORE SDO62 SAVE AREA
                                                                 11404 04394414
         LΔ
               R13, REGSAVE
                                       TEST RETURN CODE
                                                                 11404 04395314
         LTR
               R3.R3
                                                                 11404 04396214
                                       NURMAL RETURN
         ВE
               SD06225
                                                                PTM663 04397116
         Н
               $0062010+12
                                       FRROR RETURN
                                                                       04398014
                                                                 11404 04398914
SD06225
        FOU
                                                                     * 04400000
* CORE IS GOTTEN FOR A PARAMETER LIST WHICH IS PASSED HETWEEN
                                                                  1270 04440019
                                                                  1270 04460019
  INITIATOR MODULES AND FOR THE ATTACH PARAMETER LIST WHICH IS
* INITIALIZED IN 1EFSD103 AND USED BY 1EFSD263 IN THE LINK
                                                                  1270 04480019
                                                                  1270 04500019
* PACK AREA TO ATTACH THE SUBTASK.
SIZE OF PARMETER LISTS
                                                                  1270 04600019
         LA
               RO, LISTSIZE
               R13.LISTSIZE-1
                                  SIZE OF PARM AREA LESS ONE
                                                                  1270 04640019
         L A
                                  SUBPORT 253
                                                                  1270 04720019
         LΔ
               R1,TCORE
                                  SP IN LIGH ORDER BYTE
                                                                  1270 04760019
         SLL
               R1, X24
                                  SP AND LENGTH IN REG U
                                                                   1270 04800019
         ΠR
               RO.R1
                                                                   1270 04880019
         GETMAIN R, LV=(0)
                                  ZERO GOTTON CORF
                                                                   1270 04920019
               R13,CLEARCOR
         ĤΧ
                                                                   1270 04960019
                                  EST ADDRESSABILITY OF PARM ARE
         LR
               R11.R1
         ST
               R4. [FFUSADD
                                  ADDRESS OF USER PARMS
                                                                   1272 04980019
                                  ADDRESS OF ATTACH PARM LIST
                                                                   1270 05000019
               RO, IEFPSIZE (R11)
         ΙΔ
               RO. TEFREMLS
                                  ADDR OF ATTACH LIST IN PARM LT
                                                                   1270 05040019
         ST
                                                                   1270 05060019
               R13.X1(R13)
                                  LENGTH OF GOTTEN CORE
         LΑ
                                  STORE LENGTH OF GOTTEN CORE
                                                                   1270 05080019
         STC
               R13, IFFREMLS
               R3,12(0,R2)
                                        TIPTLIST POINTER
                                                                        05120000
                                        PLACE IN PARAMETER LIST
         ST
               R3. IEFTIOTA
                                                                        05140000
                                       GET CSCH HASE REGISTER
                                                                       05160000
               R5, LCTOORTY
                                  ADDRESS OF INIT'S TOB
                                                                   1272 05180019
               R4,LCTTCHAD
         ST
               R4, IEFTCHAD
                                        PLACE IN PARAMETER LIST
                                                                        05200000
                                       THIS SERIES OF EXCLUSIVE OR'S
                                                                       05220000
         ХC
               O(4,R3) +TINTPONT(R4)
               T10TPONT(4,R4),0(R3)
                                       RESULTS IN PUTTING THE JOB STEP
                                                                        05240000
         ХC
               O(4.R3).TIOTPONT(R4)
                                       TIOT PTR IN THE INITIATOR'S TOB
                                                                        05260000
         XC.
                                       AND THE INITIATOR TIOT PTR IN
                                                                        05280000
                                       THE TIOT LIST. THIS IS DONE TO
                                                                       05300000
                                       SAVE THE PTR TO THE INITIATOR
                                                                        05320000
4
                                       TIOT WHILE THE PTR TO THE JOB
                                                                        05340000
                                       STEP TINT IS PLACED IN THE
                                                                        05360000
```

```
INITIATOR'S TOH TO BE REFER-
                                   ENCED BY THE OPEN ROUTINE
                                                                 05400000
        SI
             RR. TEFL CTAD
                                    PLACE LCT POINTER INTO PAR EST
                                                                 05420000
* 05460000
* THE FOLLOWING SECTION OF CODE GETS CORE FOR AND OPENS THE JUBLIE
                                                               * 05480000
                                                            *UC42 05500017
             STEPLIB, AND/OR FETCH DOB'S AS NECESSARY
IS PROTECT KEY TO BE ZERO
        TM
             SCTSSTAT, X 1041
                                                            CR17 05545017
             BYPASS
                               YE" . IGNORE JOBLIE AND FETCH
                                                           A16531 05550019
        BO
                                                             CR17 05555017
                                DCRS
                                   GET TIOT ADDRESS
             R10.TIGTPONT(R4)
                                                                 05560000
       L
SET UP STAF ENVIRONMENT
                                                               * 05562019
Cat LNTH OF AREA
                                                           A16531 05564018
        LA
             RO.STAELNTH
        LA
             R14, TCORE
                                   SUBPOOL NUMBER A
                                                           A16531 05565018
                                   MOVE TO HE ORDER BYTE
        SLL
             R14,24
                                                           A16531 05566018
                                   LNTH REG
                                                           A16531 05567018
        nR.
             RO, R14
                                                                 05568018
        GETMAIN R.LV=(0)
                                   SAVE PARM ADDRS
                                                           A16531 05569018
        I R
             R9, R1
                                   & STAE EXIT ROUTINE
                                                           A29871 05571019
        LΔ
             RO, AGAIN
             RO,0(R9)
                                   SAVE EXIT RIN W
                                                           A2987: 05573019
        ST
                                   SAVE PARM AREA W
                                                           A29871 05575019
             R9,4(R9)
        ST
        STM
             R4,R11,16(R9)
                                   SAVE REGISTER'S
                                                           A29871 05577019
             RO.RO
                                    ZERO A REGISTER
                                                                 05580000
        SR
  THIS IS THE MACRO WHICH SETS UP THE ENVIRONMENT FOR HANDLING
                                                           A16531 05580118
* ABENDS AFTER OPEN STMTS. AN ADDRESS OF THE EXIT ROUTINE IS
                                                           A16531 05580218
* GIVEN HERE TO ROUTE CONTROL THROUGH THE RETRY ROUTINE. A PARM
                                                           A16531 05580318
* AREA ADDRESS IS GIVEN WHICH HAS SAVED REGS FOR THE RETRY
                                                           A16531 05580418
        STAE
              MF=(E,(R9))
                                   ISSUE STAE MACRO
                                                           A29871 05580719
                                   IS STEPLIB PRESENT
                                                            17052 05581017
             SCISTATZ, SCISTPLB
        TM
             IEFJOBLB
                                   MO. CHECK JOBLIB
                                                            17052 05582017
        ΗZ
IEFSD032 DS
             0H
                                                            17052 05583017
                               DCH LENGTH
                                                            17052 05584017
             RO.IEFDCBN-IEFDCHS
        LA
        LR
             R4,R0
                                SUBTRACT ONE
                                                            17052 05585017
                                TO EXECUTE MOVE INSTRUCTION
                                                            17052 05586017
        BCTR
             R4,0
                                                            17052 05587017
        ĻΑ
             R14,TCORE
                                SUBPOOL NUMBER
                                TO HIGH-ORDER BYTE
                                                            17052 05588017
        SLL
             R14,24
                                                            17052 05589017
                               OF LENGTH FIELD
             RO. R14
        UB
                                                                 05590017
                                                            17052 05591017
        GETMAIN R.LV=(0)
                               GET DOB CORE
                                                                 05592017
        LR
                                ADDR TO DCB BASE REGISTER
                                                            17052 05593017
             R3,R1
             R4, MOVEDOB
                                MOVE REMOTE DOB TO GOTTEN CORE 17052 05594017
        EΧ
        MVC
             DCHDDNAM, STEPLIB
                                   PUT STEPLIB DONAME INTO DCB17052 05595017
                                   OPEN STEPLIB DOB
             TEFJSOPE
                                                            17052 05596017
IEFJOBLE IM
             JCTJSTAT, JOBLIB
                                   WAS JUBLIB SPECIFIED IN
                                                            17052 05606017
                                    JOB
                                                                 05620000
        87
             1EFSD030
                                    NO. CHECK FOR FETCH
                                                                 0.5640000
                                    NO. LENGTH OF DCB.
             RO.IFFDCBN-IEFDCBS
                                                             CR17 05680017
        LA
        LR
             R4,R0
                                    LENGTH OF DCB - 1
                                                                 05720000
                                    TO EXECUTE
        BCTR
                                                                 05740000
             R4,0
             R14, TCORE
                                    SUBPORT NUMBER
        LΑ
                                                                 05760000
                                    TO HIGH ORDER BYTE
        SLL
             R14,24
                                                                 05780000
             RO, R14
                                    OF LENGTH FIELD
                                                                 05800000
        OR
```

```
GETMAIN FOR DCB
                                                                             05820000
         GETMAIN R.LV=(0)
                                          ADDRESS OF REMOTE DCB
                                                                             05840000
         I R
                R3, R1
                                          MOVE DON TO GOTTEN CORE
                                                                             05860000
         FX
                R4, MOVEDCB
         MVC
                DCRDDNAM(8),TIOFDDNM
                                          PUT THE DONAME IN THE DCH
                                                                             05880000
  THE FXIT LIST CODE USED FOR 213 ABTNDS HAS BEEN REMOVED FROM A16531 05890018
* THIS MODULE.
                IT IS NO LONGER NEEDED NOW THAT A STAE ENVIRON-
                                                                      A16531 05900018
* MENT HAS BEEN ESTABLISHED THE OPEN STMT IS CHANGED SUCH THAT
                                                                     A16531 05910018
* IT NO LONGER ADDRESSES THE EXIT LIST
                                                                      A16531 05920018
IEFJSOPF LR
                R1, R2
                                         ALLOCATE PARMLIST
                                                                      A16531 0593U018
                                                                      A29871 05960019
         STM
                R2,R3,8(R9)
                                          INDICATE END OF LIST
                                                                             06000000
         MVI
                O(R1), X1801
                                          OPEN THE DCB
                                                                             06020000
         OPEN ((3), INPUT), MF = (E, (1))
         TM
                DCBOFLGS,X*10*
                                         OPEN SUCESSFUL
                                                                      A16531 06040018
                                         BRANCH NO
                                                                      A16531 06060018
                TEESD33A
         87
         SIT
                R3,LCTJDBLB
                                          SAVE JOBLIB DCB POINTER
                                                                             06080000
                                         WAS JOBLIB SPECIFIED
                                                                     17052
         TM
                JCTJSTAT, JOBLIB
                                                                             06086017
                                                                      17052 06092017
         B 7
                1EFSD030
IEFS0023 SR
                RO,RO
                                          ZERO A REGISTER
                                                                             06100000
IEFSD025
                RO, TIDELNGH
                                                                             06120000
         IC
                                           ANY MORE ENTRIES ?
                                                                             06140000
         LTR
                RO, RO
                                           NO, DON'T OPEN FETCH
                                                                             06160000
         BZ
                IFFSD035
                                                                             06180000
                                           CHECK FOR
         ΔQ
                R10,R0
         CLI
                TIDEDDNM.X'40'
                                           CONCATENATION
                                                                             06200000
                TEESD025
                                           IF CONCATENATED, GET NEXT ENTRY 06220000
         HF
                                           WAS FETCH SPECIFIED ?
                                                                             06240000
IFFSD030 TM
                SCTSTYPE + SCTGOSTP
         ΗZ
                IEFSD035
                                         NO. DON'T OPEN FETCH
                                                                       17052 06250017
                RO. IFFDCBN-IEFDCBS
                                          DCH LENGTH
                                                                             06266017
         LA
         LR
                R4.R()
                                           DECREMENT BY ONE
                                                                             06272017
                                                                             06278017
         HCTR
                R4,0
                                           FOR EXECUTING MOVE
         LΔ
                R14, TCORE
                                           SUBPOOL NUMBER
                                                                             06284017
                                           TO HIGH ORDER BYTE
                R14.24
                                                                             06290017
         SLL
         OR
                RO.R14
                                           OF LENGTH FIELD
                                                                             06296017
         GETMAIN R, LV=(0)
                                           GET DOB CORE
                                                                             06302017
                                           PLACE ADDRESS IN R3
                                                                             06308017
         LR
                R3,R1
                                                                      A29871 06311019
                R2, R3, E(R9)
         STM
                                           MOVE DOB TO GOTTEN CORE
                R4,MOVEDCB
                                                                             06314017
         EΧ
                                           PLACE DONAME IN DCB
         MVC
                DCBDDNAM, TIDEDDNM
                                                                             06320017
                R1,R2
                                           ADDRESS OF REMOTE LIST
                                                                             06350017
         LR
                                           INDICATE END OF LIST OPEN THE DCB
                                                                             06356017
          MVI
                O(R1),X'80'
         DPEN
               ((3),INPUT),MF=(E,(1))
                                                                             06362017
                                          OPEN SUCESSFUL
                                                                      A16531 06368018
                DCBOFLGS + X 1101
          TM
                                          BRANCH NO
         RZ.
                IEF50033
                                                                      A16531 06374018
                                    DCB ADDRESS IN PARM LIST
                                                                        1270 06378019
          ST
                R3, IEFDCBAD
                                                                       17052 06383017
                IEFSD035
                                                                             06403017
TEESD334 DS
                0H
                                          STEPLIB PRESENT?
                                                                       17052 06423017
                SCISTAT2, SCISTPLB
          TM
                                          NO, JOBLIB
                                                                       17052 06443017
          RZ
                IEESD033
                                                                             06463017
IEESD33H DS
                0H
                                          YES, DOES RIO POINT TO
                                                                       17052 06483017
          CLC
                TIDEDDNM(8), STEPLIB
                                           STEPLIB ENTRY
                                                                       17052 06503017
                                                                       17052 06523017
                                          YES, GET OUT
          BE
                IEES0033
          T.C.
                RO, TIDELNGH
                                          NO. BUMP TO
                                                                       17052 06543017
                                          NEXT ENTRY
                                                                       17052 06563017
          ΔR
                R10,R0
                TEFSD33H
                                          CONTINUE SEARCH
                                                                       17052 06583017
                                                                             06587018
A72
          FOL
                                                                      A16531 06591018
          PALR R15.0
          USING * R15
                                                                      416531 06595018
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A16531 06599018
                R12.STAFREG
         DROP
                                                                      A16531 06603018
                R15
               1EFSD06212,R12
                                                                      A16531 06607018
         USING
                                         WORKARFA
                                                                      A16531 06611018
         CH
                RO, TWELVE
                                         BRANCH NO
                                                                      A16531 06615018
         BE
                NOGO
                                         GET STAFPARM ADDRS
                R9,0(R1)
                                                                      A16531 06619018
                                         FREE WKARFA
         FREEMAIN
                   R.L.V=104.Δ=(1)
                                                                      A16531 06623018
                PROCESS
                                         BRANCH TO CONTINUE
                                                                      A16531 06627018
                                         GET STAF PARM ADDRS
                                                                      A16531 06631018
NOGO
         LR
                R9,R2
PROCESS
                R2,R11,8(R9)
                                         RESTORE REGISTER'S
                                                                      A29871 06641019
         LM
                                    TIVERRIDE USER PROGRAM NAME IN
                                                                        1270 06663019
                LCTINTSW, LCTSDOXX
IEFSU033 OI
                                                                        1270 06671019
                                    IN ATTACH PARM LIST.
                RO.IEFDCBN-IEFDCBS
                                           LENGTH OF DCR
                                                                             06680000
         IΔ
                                                                             06700000
         LA
                R4, TCORE
                                           SUBPOOL NUMBER
                R4.24
                                           TO HIGH ORDER BYTE OF
                                                                             06720000
         SLL
                                           LENGTH REGISTER
                                                                             06740000
                R0,R4
         U.B.
                R1,R3
                                           ADDRESS OF REMOTE DCH
                                                                             06760000
         LR
         FREEMAIN R, LV=(0), 4=(1)
                                                                             06780000
                                           FREE DOB AND EXIL LIST
                                           ADDRESS OF USER PARAMETERS
                R1, IEFUSADD
                                                                             0.6800000
                                          LENGTH OF USER PARAMS
                                                                       18428 06820017
                R4,4(R1)
         L
               RO,8(R4)
                                                                       18428 06840017
         LA
                                           SUBPOOL NUMBER
                                                                             06860000
         LA
                R4, TCORF
                                           TO HIGH ORDER BYTE OF
                                                                             0.0008880
         SLL
                R4.24
                                           LENGTH REGISTER
                                                                             06900000
                R()+R4
         DR
         FREEMAIN R, LV=(0), A=(1)
                                           FREE USER PARAM LIST
                                                                             06920000
         LΔ
                R4.8
                                           GET LENGTH DE USER PARAMS
                                                                             06940000
                                          PLUS A FOR GETMAIN
                                                                       18428 06960017
         L A
                R(),8(R4)
                                          SUBPOINT NUMBER
                                                                       M2434 U6980018
         LΑ
                R1, TCORE
                                          TO HIGH ORDER BYTE OF
                                                                       M2434 07000018
         SLL
                R1,24
                RO,R1
                                          LENGTH REGISTER
                                                                       M2434 07020018
         DR
         GETMAIN R, LV=(0)
                                           GETMAIN FOR USERS PARAMS
                                                                             07040000
                                           SAVE NEW ADDRESS OF USER PARAMS 07060000
         ST
                R1, IEFUSADD
         ST
                R4,4(0,R1)
                                          LENGTH TO LIST
                                                                       M2434 07080018
                                PLACE ADDRESS OF LENGTH FIFLD
                                                                       23021 07100018
                RO,6(0,R1)
         LA
         ST
                RO,0(0,R1)
                                           IN THE GOTTEN LIST AND
                                                                             07120000
                O(R1),128
                                           SET HI-ORDER BIT TO 1
                                                                             07140000
         n_1
                                     MOVE IN DONAME
                                                                       18428 07180017
         MVC
                8(8,R1),TIDEDDNM
IEFSD035 FOU
                                                                             07220000
                                                                      A27679 07222019
              STAE PARMAREA GOTTEN FOR THE RETRY
     FREE THE
                R(), STAELNTH
                                          GET PARM LENGTH
                                                                      A27679 07224019
         LA
                                          SUBPOOL NUMBER
                                                                      A27679 07226019
                R14,TCORF
         Ι.. Δ
         SLL
                R14,24
                                          MOVE TO HI ORDER BYTE
                                                                      A27679 07228019
                                          LENGTH REGISTER
                                                                      A27679 07230019
         ΠR
                RO, R14
                                          FREE THE AREA
                                                                      A27679 07232019
         FREEMAIN R_1 = (0), \Delta = (R9)
BYPASS
                                                                      A16531 07236019
         EQU
                                          GET ADDRESS OF INITIATOR'S TOB
                                                                             07240000
                R4, IEFTCBAD
                                          IN R4
                                                                             07260000
                LCTPARM1(X4)+LCTPARM1 ZERO FIELD
                                                                        1272 07262019
                SCTSSTAT, X 1041
                                           IS PEDIECTION KEY TO BE CH CR17
         TM
                                                                             07264017
                IEFSD040
                                                                        CR17 07266017
         BZ
                                           NO.
                LCTPARM1(1),TCBPKF(R4)
                                           YES. SAVE OLD PROTECTION KE
                                                                       CR17 07268017
         MVC
                                                                        CR17 07270017
TCHPKE
         FOU
                28
          ХC
                TCHPKF(1,R4),TCHPKF(R4)
                                           ZERO OUT PROTECTION KEY IN CRIT 07272017
IEFSD040 EQU
                                                                        CR17 07274017
                R3, IEFTIOTA
                                          GET ADDRESS OF TIGT LIST IN R3
                                                                             07280000
                                                                             07300000
                O(4,R3),TIOTPONT(R4)
                                          THIS SERIES OF EXCLUSIVE OR'S
                                                                             07320000
          ХC
```

الح المعتقد بتعالم الم

```
TIOTPONT(4,R4).O(R3)
            ХC
                                            PHTS BACK THE JOB STEP AND
                                                                               07340000
            ХC
                  0(4,93),TINTPNNT(R4)
                                            INITIATOR TIOT PIRS INTO THE
                                                                               07360000
                                            TINT LIST AND THE INTITATORIS
                                                                               97380000
                                            TOR RESPECTIVELY. (SEE ABOVE
  *
                                                                               07400000
                                            WHERE THEY WERE SWAPPED TO
  坎
                                                                               07420000
                                            ALLOW OPEN TO REFERENCE THE JOR
                                                                               07440000
                                           SIEP TINT FROM INITIATOR'S TOB)
   RESTORE THE JSCH ADDRESSES WHICH WERE SWITCHED BEFORE ALLOCATION 1272 07540019
                                      JIH STEP JSCH
                                                                         1271
           Ĺ
                 R3, LCTJSCA
                                                                              07620019
                                      INIT'S JSCH
           SI
                 RO.LCTJSCB
                                                                         1272 07700019
                                      JOB STEP JSCR IN LCT
           ST
                                                                         1272 07780019
                 R3,TCHJSCH(R4)
           LA
                 RI. TEFFCELT
                                                                               07860019
                                            ADDRESS OF ECH LIST
           ST
                 R1. IEFFCHLA
                                                                               07960000
                                            STORE IN PARAMETER LIST
           LA
                                                                               07980000
                 R3. IFFAFCH
                                            ADDRESS OF ATTACH ECH
           ST
                 R3,0(0,R1)
                                                                              08000000
                                            PLACE IN ECHLIST
           LA
                                                                              00005080
                 R4.CHCECH
           ST
                 R4,4(0,R1)
                                                                         1272 08040019
                                            PLACE IN FCHLIST
                 4(R1),128
                                                                              08060000
                                            TURN ON HIGH ORDER BIT OF LIST
           LR R1.R2
FREEMAIN R
                                                                              08080000
                                            ADDRESS OF IMPUT LIST
                     R+LV=24.A=(1).SP=TCORF
                                                                              08180000
    THIS IS THE MACRO WHICH CANCELS THE STAR ENVIRONMENT
                                                                              00000580
                                                                      A16531 08206018
           STAE
                                           CANCEL STAE POINT TO PARAMETER LIST
                                                                      A16531 08212018
           LR
                 R1.811
                                                                              08220000
                 R15, IEF63VCN
                                            ADDRESS OF ATTACH MODULE
           AR
                 R15
                                                                              08240000
                                            GG TO ATTACH MODULE
      THIS IS THE STAE EXIT ROUTINE. HERE IS WHERE WE SPECIFY VIA A16531 08261018
 * A RETURN CODE IN RIS THAT A RETRYS IS TO BE ATTEMPTED. WE
 * RETURN TO THE STAE INTERFACE WITH THE RETRY ADDRS IN RO
                                                                      A16531 08262018
                                                                      A16531 08263018
          BALR
                                                                      A16531 08264018
                R15.0
          USING *,R15
                                                                      A16531 08265018
                                                                      A16531 08266018
                 R12, STAFREG
                                          RE-ESTABLISH BASEREG
          DRDP
                                                                      416531 08267018
                R 15
          USING IEFSD062+2,R12
                                                                      A16531 08268018
                                                                      A16531 08269018
          LΑ
               R15,4
                                                                      A16531 08270018
          1 1
                RO. 477
                                                                      A16531 08271018
          BR
               R14
 TWELVE
          nc
                                                                             08272018
                H'121
STAFREG
          DC
                A(IEFSD062+2)
                                                                             08273018
                                                                      A16531 08274018
STAELNIH
            EDU
                 60
CF()
                                                                      A29871 08277019
          DC.
                FIOI
                                           WORD OF ZEROES FOR COMPARES
MAINLETH DC
                A(DATACELL-UCBOB)
                                                                             08280000
SUBLIGHTH
                                                                        1272 08282019
          DC
                A(L'DATACELL)
IEFRDER
                                                                        1272 08284019
          DC
                CL8 ! IEFRDER !
HOURS24
          DC.
                F *8640000 +
                                                                        1272 08286019
                                          1440 MIN IM HUNDREDTH OF SEC.
STEPLIB
         DC
                CL8 STEPLIB .
                                                                             08290018
                                          DONAME FOR OCH
I EFOMGRY DC
                                                                        DC42 03350017
                V(IEFOMRAW)
SYSCMO
          ENO
                (IEFSOCBS, IEFO7OCB, E, 2, SYSTEM), MF=L
                                                                             08360000
IEFO70CH DC
                                                                        1272 08363019
                C 1071
                                    MINOR FOR SYSTEM TASK
IFFSOCHS DC
                C'SYSIEFSD!
                                                                        1272 08366019
                                    MAJOR
ACSTARTG DC
                C'STARTING!
                                                                        1272 08369019
BLANKEW DC
                C '
                                                                        1272 08372019
IEFMOVE1 MVC
                8(0,R4),4(R5)
                                                                            08375019
                                     MOVE USER PARAMS FROM BUFFER
CLEARCIJR XC
                                                                      18428 08380017
                XO(XO,R1),XO(R1)
SETRITS OI
                                                                       1270 08390019
                JCTRSW2,X1001
                                     PHT C/R BITS IN JCT
TINTPONT FOU
                                                                       CR17 08410017
                                                                            08420000
```

```
IEF63VCN DC
                 V(IEFSD063)
                                                                                08440000
 TEFSD65V DC
                 V(IEFSD065)
                                                                                08460000
 IEFSDSTI DC
                  VITEESDIIOI
                                            ADDR OF STACK IMIT. PGM
TIOT WRITE ROUTINE.
                                                                                08480000
 SD514RTE DC
                 V(IEFSD514)
                                                                           CR17 08485017
 $006250 DC
                 V(IEFSD112)
                                                                          11404 08490014
 IEFSD161 DC
                 V(TEESDO61)
                                       LINKAGE TO IEESDIGE
                                                                            1199 08490719
 RESTART DC
                 CLR ! I EFRSTRT!
                                       STEP NAME FOR RESTARTING STEP
                                                                            D99 08491419
                                                                            099 08492119
 * * * * * * * * * * FNO/DEG FOR DIRECT SYSOUT CONTROL BLOCKS (DSOCB)
                                                                            ()99
                                                                               08492819
                                                                            M99 08493519
 DSOCRMO END
                 (IEFSQCBS.DSDCBNQR.S.O5.SYSTEM).MF=L
                                                                            N99 UR494219
                                                                            (199)
                                                                                08494919
 * * * ENGIDED O AND R NAMES
                                                                            099 08495619
                                                                            099 08496319
   USING MAJOR NAME IN END ISYSCHO!
                                                                            099 08497019
 DSOCHMOR DC
                 CIDSOCHI
                                 R - MINDR NAME
                                                                            099 08497719
                                                                           099 08498419
 MOVEDOR
          ₩ VC
                 O(O,R3), IEFDCBS
                                            MOVE DOR TO GUTTN CORE
                                                                                08500000
 TCORE
           EQU
                 253
                                                                                08520000
 N()
          FOLL
                 0
                                                                           099 08521019
ΝI
          EQU
                 1
                                                                           Π99 08522019
 N2
          EOU
                 2
                                                                           M99 08523619
N3
          FQU
                 3
                                                                           099 08524019
N4
          EQU
                                                                           099 08525019
N7
          EQU
                                                                           099 08526019
N8
          EQU
                 R
                                                                           Π99 08527019
EIGHT
          EOU
                 Ą
                                                                           099 08528019
NÇ
          FOU
                 12
                                                                           099 08529019
N72
          EQU
                 72
                                                                           099 08530019
X104
          EQU
                 104
                                                                           099 08531019
N2 55
          EQU
                 255
                                                                           099 08532019
RSTRTCK
          DC
                CL8'IEEDSDRP!
                                                                           099 08533019
DSOMSG
          DC
                C'IFF3871 DIRECT SYSDUT=
                                                                           N99 08534019
PERIOD
                C'. 1
          FOL
                                                                           P99 08535019
CHMMA
          EQU
                C1,1
                                                                           099 08536019
JOBLIB
          EDU
                XIBOI
                                                                               08540000
TCBJOBL
          EQU
                40
                                                                               08560000
X()
          FQU
                O
                                                                          1272 08560119
Xl
          EQU
                13
                                                                          1272 08560219
ΧЗ
          EQU
                                                                          1272 08560319
X4
          EQU
                4
                                                                          1272 08560419
X 7
          EQU
                7
                                                                          1272 08560519
XB
          EQU
                8
                                      DISPLACEMENT
                                                                          1272 08560619
X24
          EQU
                24
                                                                          1272 08560719
X96
          EQU
                96
                                                                          1272 08560819
X184
          EQU
                184
                                                                          1272 08560919
X255
         FQU
                255
                                      USED IN MASK
                                                                          1272 08561019
X256
         EQU
                256
                                                                          1272 08561119
                C 1 1
BLANK
         EQU
IELRINCO EQU
                                                                         1272 08561219
                                                                          1272 08561319
NOSTOTS
         EQU
                X 1001
                                                                         1272 08561419
ONEREC
         EQU
                X 101 1
                                                                         1272 08561519
READCODE EQU
                X1041
                                                                         1272 08561619
MAINUCB
         EQU
                XIFFI
                                                                         1272 08561719
P00L246
         EQU
                246
                                                                         1272 OR561819
RINCODE4 EQU
                X1041
                                                                         1272 08561919
IDFLAG
         EQU
                X 181 1
                                                                         I272 08562019
```

```
SPROGRAM FOU
             X 1 () 4 1
                               VERB CODE FOR STARTED PROGRAM
                                                             1272 08562119
TCBTIO.
        FOU
             12
                               TIOT DISPLACEMENT IN TCH
                                                             1272 08562219
TCAUSCH
        FINIT
             180
                                                             1272 08562619
        FJFCT
                                                                 08563017
TEFDCHS
        ns
             ()F
                                                                 08580000
        DCB DSORG=PO,MACRE=E
                                                                  08600000
        FUFCT
                                                                  08610017
TEFOCHN
        FOU
                                                                 08640000
        DCBD DSURG=(PO.XF)
                                                                  08660000
        FUFCT
                                                                  08670017
IFFCSCB DSFCT
                                                                 0.000.088.80
TEHCHAIN
                                                                  08700000
        FUECT
                                                                  08710017
TEFONNGR
                                                                  08720000
        FOU
             INPARAMS+24
                                   PTR IN OMPA TO TRK STACK INFO
                                                                  08740000
        EJECT
                                                                  08750017
08760000
08780000
        THE FOLLOWING REPRESENTS A BLOCK OF MAIN STORAGE WHICH
                                                                ×
                                                                 08800000
22
        EXISTS WHILE THE JOB STEP US RUNNING. IT IS GOTTEN
                                                                ×
                                                                 08820000
        BY THIS MODULE AND IS FREED BY IFFSD164
                                                                 08840000
                                                                * 08860000
2.1
                                                                 06068880
IEEPARAM DSECT
                                                                  08900000
                                    ADDRESS OF USER PARAMETERS
IFFUSADD DS
                                                                  08920000
IEFFCHLA DS
                                    ADDRESS OF FCB LIST
                                                                  08940000
                                    ADDRESS OF SUPERVISOR L LIST
IFFREMLS DS
                                                                 08960000
TEFLCTAD DS
                                    ADDRESS OF LCT
                                                                  09980000
             ۴
TEETCRAD DS
                                    ADDRESS O INITIATOR'S TOB
                                                                  09000000
IFFTIOTA OS
             ۶
                                    ADDRESS OF TIOT
                                                                  09020000
                                    ADDRESS OF DCB
LEFOCHAD DS
                                                             1270 09030019
TEFECHLT DS
             26
                                    FCB LIST
                                                                  09040000
I EFAECB
        DS
                                    ATA
                                                                  09060000
IEFPLEND EQU
                                                             1270 09070019
IEFPSIZE FOU
             IFFPLEND-IFFPARAM
                                                             1270 09080019
        FJFCT
                                                                  09090019
        IFZATTCH
                                                             1270 09100019
LISTSIZE EQU
             TEEPSIZE+ATLSTSIZ
                                                             1270 09105019
        FJECT
                                                                  09110017
09120000
                                                                * 09140000
        THE FULLOWING REPRESENTS A BLOCK OF MAIN STORAGE WHICH IS
χĊ
                                                                * 09160000
        ALLOCATED FOR THE LIFE OF
                                                                 09180000
        OF THIS INITIATOR. IT CONTAINS:
                                                                 09200000
                                                                 09220000
              (1)
                  THE LCT (LINKAGE CONTROL TABLE)
                                                                 09240000
                  A 2 LEVEL REGISTER SAVE AREA FOLLOWED -
              (2)
                                                                 09260000
                  THE OUTUE MANAGER PARAMETER AREA
                                                                 09280000
                  AN ALTERNATE QUEUE MANAGER PARAMETER ARES
                                                                 09300000
              (3)
                                                                 09320000
09340000
LEFLOT
       DSECT
                                                                  09360000
  IEFALLOT
                                                                  09380000
        FUECT
                                                                  09390017
             F
LCTBATMN DS
                *****TO BE ADDED TO LCT
                                                                  09400000
LCTSOOMP DS
             F
                *****TO BE ADDED TO LCT(VMS ONLY)
                                                POINTER TO
                                                                  09420000
                     SYSOUT QUEUE MANAGER PARAMETER AREA
                                                                  09440000
```

```
09460000
               F *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR'S
LCTRTRN DS
                                                                            09480000
                        RETURN POINT
LCTINTSW DS
                                     INITIATOR INTERNAL SWITCHES
                                                                       1272 09482019
               OC
                                   RUN IN HIFKAKCHY UNH
                                                                       1272 09484019
LCTIHIER EQU
               120
                                                                       1272 09486019
LCTSDOXX FQU
               32
                                    ATTACH IEFSDOXX
                                                                       1272 09488019
                                    JOB FLUSH - USE MINPAR
LCTMINEG EQU
               16
                                    TASKNAME NOT ON COMMAND
                                                                       1272 09490019
LCTSTART EQU
               Я
                                    INITIATUR INTERNAL STOP
                                                                       1272 09492019
LCTSTOP
         FQU
               4
                   *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR CSCB
                                                                            09500000
LCTCSCB
         DS
                                                                            09520000
                        ADDRESS
               4F ****TO BE ADDED TO LCT(VMS ONLY) TIMER WORK AREA
                                                                            09540000
LCTTMWRK DS
                   ******TO BE ADDED TO LCT(VMS ONLY) JUBLIB DCB PTR
                                                                            09560000
LCTJOBLB DS
               F
                   *****TO BE ADDED TO LCT(VMS ONLY) POINTER TO
                                                                            09580000
LCTATEST DS
                                                                            09600000
                        ALLOCATE/TERMINATE PARAMETER LISTS
                                          REGISTER AVE AREA
                                                                            09620000
REGSAVE
         ns
               36F
                                          QUEUE MANAGER PARAMETER AREA
                                                                            09640000
                Q F
OMGR1
         DS
                9 F
                                          ALTERNATE DUFUE MANAGER AREA
                                                                            09660000
QMGR 2
         DS
TRSTKINE DS
                2F
                                   NEEDED FOR TRACK STACKING AND QUEUE
                                                                            09680000
                                   BREAK INFORMATION. 1ST BYTE TO CON-
                                                                            09700000
                                   TAIN NUMBER OF BUFFERS. NEXT 3 BYTES
                                                                            09720000
                                   FOR STACK ADDR. NEXT 4 BYTES FOR
                                                                            09740000
                                   QUEUE BREAK INFORMATION
                                                                            09760000
                                                                       DC 42 09764017
                1 F
                                          PTR
ECBLIST
         DS
                                                                       OC42 09768017
LCTIDENT DS
                2 F
                                          IDENTIFIER
                                     POSSIBLE FORCE VALUES
                                                                       1241 09770018
                CL8
LCTEORGE OS
                                                                       1241 09772018
                                     LIMIT VALUE
LCTLIMIT DS
                C.
                                     FORCE PRTY HOLDER
                                                                       1241 09774018
FRCPRTY DS
INITPRTY DS
                                     INITIATOR'S PRTY
                                                                       1241 09776018
                                                                       1272 09776219
    THESE FIELDS ARE NEEDED FOR L-SHAPE/INIT MERGE
                                                                       1272 09776419
                0F
         DS
LCTOPSW1 DS
                ОC
                                     INITIATOR OPTIONS BYTE 1
                                                                       1272 09776619
                                     DONT GET PROTECT KEY
                                                                       1272 09776819
LCTPKEYF EQU
                128
                                     DONT PROCESS DEDICATED WORKE
                                                                       1272 09777019
LCTDWFF
         FOU
                64
LCTSTMDF EQU
                32
                                     DONT PROCESS STOP/MODIFY
                                                                       1272 09777219
LCTMINPF EQU
                                     GET REGION SIZE SPECIFIED
                                                                       1272 09777419
                16
                                                                       1272 09777619
                                     ALLOW CANCEL ONLY AT ALLOC
LCTCANE
          EQU
                8
                                                                       1272 09777819
LCTONEJE EQU
                                     PROCESS ONLY ONE JOB
                4
                                     DONT PROCESS INITIATOR CMDS
                                                                       1272 09778019
LCTICMDF EQU
                2
                                     ADDRESS INITIATOR EXIT LIST
                                                                       1272 09778219
LCTEXIT
         ns
                                     INITIATOR OPTIONS BYTE 2
                                                                       1272 09778419
                OC
LCTOPSW2 DS
                                     DONT TIME THIS JOB
                                                                       1272 09778619
LCTTIMEF
         EQU
                128
                                     DONT ALLOW CHECKPT/RESTART
                                                                       1272 09778819
LCTCRF
          FOU
                64
                                                                       1272 09779019
LCTDSOF
          EQU
                32
                                     DONT PROCESS DSD
LCTINTHO EQU
                                     INIT IN HIERARCHY ZERO
                                                                       1272 09779219
                16
                                                                       1272 09779419
                                     INIT IN HIERARCHY ONE
LCTINTH1 EQU
LCTCOM
          DS.
                F
                                     COMMUNICATIONS PARM AREA PTR
                                                                       1272 09779619
                                    ADDRESS OF JSCB
                                                                       1272 09779819
                ۴
LCTJSCB
         DS
                                          END OF LIFE-OF-TASK BLOCK
                                                                            09780000
IEFEND
          FOU
                *
          EJECT
                                                                             09790017
                                                                            00000860
IEFJCT
         DSECT
                                                                             09820000
 TEFAJCTB
                                                                        099 09820519
                SMBMSGLN
          FOIL
SMBHDR
          EQU
                                         HEX EQUATE
                                                                            09821018
HEX00
                X * 00 *
                                         NUMERIC EQUATE
                                                                            0982201B
          FOU
DECA
                8
                                                                            09823018
DEC4
          EQU
                4
                                         NUMERIC EQUATE
                                         NUMERIC EQUATE
                                                                            09824018
          EQU
                n
DECO
                                                                            09825018
                                         HEX EQUATE
HEX80
          EQU
                X * 80 *
```

```
09#30017
         FJFCT
THE SCI
         USECT
                                                                              09840000
                                                                              09860000
 TEFASCIB
         EJECT
                                                                              09870017
JEFT[HT
                                                                              00008820
         05501
TEFT1071
                                                                              09900000
                                                                         1272 09903019
         DSFCI
UCB
          TE FUCBUB
                                                                         1272 09906019
          FJECT
                                                                              09910017
                                                                         1272 09915019
SIDT
         DSFCT
          TEFASIOT
                                                                         1272 09920019
                                                                              09925019
          LJECT
          TEZUSCH
                                                                         1272 09930019
                JSCHWTP-IF7JSCH
                                                                              09935019
WIPCHPIR FOU
                                                                              09941017
          FJECT
GETPTWT
          DSECT
                                                                              09942017
                           CONTAIN THE ADDRESS OF THE REGION SIZE LI USIT 09943017
GPSIZEA
                16
          DS
                           CONTAIN THE ADDR OF ADDR LIST FOR THE HIE LS17 09944017
GPARRET
          DS
                1 ⊢
                X 101
                           CONTAIN 80 TO INDICATE UNCONDITIONAL REGULES 17 09945017
GPCODE
          0.5
                X * () *
GPSTIBP
          1)5
                           CONTAIN SUBPOOL 247 OR 246
                                                                         LS17 09946017
          DS
                H ( ) 1
                                                                         LS17 09947017
GPHIARCO US
                OF
                           CHMTAINS
                                                                         LS17 09948017
                                     OO
GPADOHO
          05
                1 F
                           CONTAINS ADDRESS(SPECIFIC) .7FRD(NON-SPEC LS17 09949017
GPHIARCI DS
                0E
                           CONTAINS OF
                                                                         LS17 09950017
                1 F
                           CONTAINS ADDRESS(SPECIFIC) +ZERD(NON-SPEC LS17 09951017
GPADOHI
         1) S
GPSIZEHO OS
                1 F
                           SIZE OF HO
                                                                         LS17 09952017
                16
                           SIZE OF HI
                                                                         LS17 09953017
GPS 17 FH1 US
                                      SIZE OF REGION FOR P/P
GPS 17 FPP DS
                1 F
                                                                         1272 09953319
GPS 17 FT
                16
                                      SIZE OF REGION FOR TERMINATE
                                                                         1272 09953619
          05
                                                                         CR17 09954017
GPADDHOR DS
                16
                           ORGINAL ADDRESS
GPMINPAR DS
                           247 + MINIMUM REGION SIZE
                                                                         CR17 09955017
IFFDSOCK DSECT
                                                                              09956019
     TEEDSOCB
                                                                              09957019
          FJECT
                                                                              09958019
          IFFBASFA
                                                                              09959019
                                                                         1272 (19959519
          IFFWTPCH
          END
                                                                              09960000
```

```
TITLE 'IFFSD263-MS/1 ATTACH MODULE'
                                                                    00020060
1EFSD263 CSECT
                                                              M3767 000801194
# 039200~039800
                                                            A24887 00080219
                                                             A29871 00080519
                                                              M3441 00081019
* 029210-029220
                                                              M0432 00082018
                                                               M409 CGO85018
                                                              M4160 00087019
                                                              M2695 000880]9
                                                              M2696 00089019
                                                               1727 00090014
*0054021400-021600
                                                              18428 00092017
*2286024200,024400
                                                               MTS0 00095016
*0642
*019400-020200,020600,027200-027400,035200-035400,036200,036400
                                                               1272 00096019
*037600,040000
                                                               1272 00097019
                                                              M4373 00098019
*027600-027800,034800-035000
                                                              M4005 00099019
* 00120000
                       INITIATOR ATTACH MODULE
                                                                  * 00140000
                                                                  # 00150000
* 00200000
* STATUS - CHANGE LEVEL 000
                                                                  * 00220000
                                                                  * 00240900
* FUNCTION - THE FUNCTION OF 1EFSD263 IS
                                                                    00260900
                                                                    00280000
            (1) TO ATTACH THE JOB STEP. NOTE THAT THIS INVOLVES
                                                                    00300000
               SAVING THE CONTENTS OF THE FIFLD IN THE INITIATOR'S
                                                                    00320000
               TCB WHICH POINTS TO THE INITIATOR, S TIOT, THEN
                                                                    00340000
               REPLACING THAT FIELD WITH THE POINTER TO THE JOB STEP
                                                                    00360000
               TIOT, THEN ISSUING THE ATTACH, THEN PUTTING THE
                                                                    00380000
               POINTER TO THE INITIATOR'S TIOT BACK IN ITS TOR.
                                                                    00400000
                                                                    00420000
            (2) TO DETERMINE WHETHER OR NOT THE JOB STEP IS TO BE
                                                                    00440000
               TIMED. IF SO TO ISSUE THE STIMER MACRO. IF NOT TO BYPASS IT.
                                                                    00460000
                                                                    00480000
                                                                    00500000
            (3) TO ISSUE A WAIT AGAINST THE POSTING OF A NORMAL STEP
                                                                    00520000
               TERMINATION ECH OR 4 STEP CANCEL FCH
                                                                    00540000
                                                                  * 00560000
            (4) TO INTERFACE WITH ABTERM IF THE JOB STEP IS
                                                               1272 00563019
               CANCELED OF IF THE TIME LIMIT HAS EXPIRED
                                                                1272 00566019
                                                               1272 00569019
            (5) TO DETACH THE JOB STEP
                                                                1272 00572019
                                                               1272 00575019
 ENTRY POINT: IEFSD263 FROM IEFSD103
                                                                  * 00580000
                                                                  # 00600000
 INPUT - REGISTER ONE POINTING TO AN INPUT PARAMETER LIST CONTAING - * 00620000
             (1) USER PARAMS ADDR
                                                                  * 00640000
                                                                  ¥ 00660000
             (2) ECB LIST POINTER
×
             (3) ATTACH PARAMETER LIST ADDR
                                                                  * 00680000
             (4) LCT POINTER
                                                                  * 00700000
             (5) INITIATOR TOB POINTER
                                                                  * 00720000
             (6) TIDT LIST POINTER
                                                                  * 00740000
             (7) DCH ADDRESS
                                                               1270 00750019
```

```
* 00760000
                                                                      * 00780000
* OUTPUT - REGISTER ONE POINTING TO THE INPUT PARM LIST CONTAINING -
              (1) USER PARAMS ADDR
                                                                        00800000
              (2) ECH LIST PHINTER
                                                                        00820000
*
              (3) ATTACH PARAMETER LIST ADDR
                                                                      * 00840000
              (4) LCT POINTER
                                                                      * 00860000
              (5) ADDRESS OF PARM AREA FOR SYSTEM TASKS.
                                                                    1272 00880019
                                                                    1272 00890019
                  ZERO FOR NON SYSTEM TASKS
              (6) TIOT LIST POINTER
                                                                       * 00900000
              (7) DCH ADDRESS
                                                                    1270 00910019
* LCTPARM1-LCTPARM4 OR THE 16 BYTH PARAMETER AREA WHEN THE LCT IS*M4160 00911019
 WRITTEN TO THE JOB QUEUE HAS THE FOLLOWING FORMAT ON EXIT
                                                                 *M4160 00912019
                                                                 *M4160 00913019
 FROM IEFSD263
                                                                 *M4160 00914019
                           TCT ADDRESS
   TCBFLG
                                                                  *M4160 00915019
           T T R OF LCT
                                                                 *M2696 00916019
                                         LCTINTSW
*
                           CSCB ADDRESS
                                                                  *M4160 00917019
   TCBDSP
                    TCHTCC (TASK COMPLETION CODE)
                                                                  *M4160 00918019
                                                                  *M4160 00919019
                                                                      * 00920000
 EXTERNAL REFERENCES- IEFSMFAT
                                                                    SMF1 00940018
                                                                        00960000
                                                                    1272 00980019
 EXIT
       IEFSD104
                                                                        01000000
* TABLES/WORK AREAS: INPUT PARAMETER, LIFE-OF-TASK BLOCK
                                                                       * 01020000
                                                                       * 01040000
                                                                       * 01060000
* ATTRIBUTES - REENTRANT
                                                                        01080000
01120000
RO
         EQU
               Ω
         F. QU
                                                                         01140000
R1
                                                                         01160000
         EQU
R2
               2
                                                                         01180000
R3
         EQU
               3
         EQU
               4
                                                                         01200000
R4
                                                                         01220000
R5
         FOIL
                                                                         01240000
R6
         EQU
R7
         EQU
                                                                         01260000
                                                                         01280000
         EQU
₹8
               8
                                                                         01300000
R9
         EQU
               9
                                                                         01320000
         EQU
               10
810
                                                                         01340000
R11
         E QU
               11
R12
         EQU
               12
                                                                         01360000
                                                                         01380000
         EQU
R13
               13
                                                                         01400000
R14
         FQU
               14
                                                                         01420000
         EQU
               15
R15
                                   ZERO DISPLACEMENT VALUE
                                                                    MP65 01422018
90
         EQU
               0
CVTPTR
                                                                    MP65 01424018
                                   POINTER TO CVT
         EQU
               16
                                   SYSTEM FLAGS BYTE IN CVT
                                                                    MP65 01426018
CVTDCH
         EQU
               X1741
MP65FLAG EQU
               X1041
                                   M65MP MULTIPROCESSOR SYSTEM
                                                                    MP65 01428018
                                   STATUS SVC NUMBER
               79
                                                                    MP65 01430018
STATUS
         EQU
STATFLAG EQU
                                   TCB PARM TO STATUS SVC
                                                                    MP65 01432018
               X 1021
STMCFLAG EQU
                                   STEP MUST COMPLETE BIT
                                                                    MP65 01434018
                                                                         01440000
                                        SET BASE REGISTER
         BAIR
               R12.0
                                                                         01460000
         USING * ,R12
                                                                         01480000
         USING
                IEFPARAM, R8
                IEFLOT.R4
                                                                         01500000
         USING
                                                                    1272 01506019
         USING GETPTWT.R11
```

```
USING ATTCHLST.R3
                                                                           01512019
           THIS SECTION OF CODE IS FOR PROVIDING A METHOD OF IDENTIFYING
                                                                         * 015400nc
                                                                           01560000
                  THIS MODULE IN A MEMORY DUMP
                                                                           01580000
                                                                           01600000
          В
                FIRST
                                                                         * 01620000
          DC
                XICCCCI
                                                                           01640000
          DC
                C'IEFSD2631
                                                                           01660000
                X'02231970'
          DC
                                                                     M3441 01680019
          DC
                XICCCC+
                                                                           01700000
 FIRST
                                                                          01720000
                                                                         * 01740000
         EJECT
                                                                           01780000
          LR
                R8.R1
                                          SAVE REGISTER ONE
                                                                           01800000
                R9.ALLCORE
                                   PURGE MODULES FROM SUBPOOL 252 M3441 01820019
                                    WHICH HAVE A USER COUNT OF ZERO
                                                                           01840019
          GETMAIN EC, LV=(9), A=A
                                                                           01860000
                R3,R4, IEFREMLS
                                   ADDRESSABILITY FOR ATTACH LIST
                                                                    M3441 01880019
                                   AND THE LCT
                                                                     M3441 ()1900()19
                R11, LCTPARM3
                                    ADDRESS OF GWT
                                                                      1272 01940019
         ÍΔ
                R11,X0(R11)
                                   ZERO HIGH ORDER BYTE
                                                                      1272 01960019
         LTR
                R11, R11
                                    DOES GWT EXIST
                                                                      1272 01980019
         RF
                SD06305
                                   BRANCH GWT DDES NOT EXIST
                                                                      1272 02020019
          IEFSD062 ISSUES OPENS FOR JOBLIB+STEPLIB OR FETCH AND
     SETS UP A STAE ENVIRONMENT TO PREVENT A 213 ABEND IN OPEN
                                                                   A29871 02023019
                                                                   A29871 02026019
     FROM BRINGING DOWN THE INITIATOR. OPEN LEAVES BEHIND SOME
                                                                   A29871 02029019
     CORE IN SUBPOOL 252 THAT WOULD NOT MATTER IF A TASK ABENDS
                                                                   A29871 02032019
     NORMALLY, BUT SINCE WE ARE INTERCEPTING THE 213 WE MUST FREE THIS CORE IF WE ARE GETTING A NEW PARTITION.
                                                                   A29871 02035019
                                                                   A29871 02038019
               R14, LCTTCBAD
                                   GET INITIATOR'S TCB.
               R14,12(R14)
                                   BUMP TO THE TIOT.
         CLI
               O(R14),C+F+
                                   FIXED INITIATOR?
               S006355
         BE
                                   BRANCH TO KEEP CURRENT REGION.
                                        SUPPOOL ID TO HI-DRD BYTE A29871 02041019
LENGTH AND ADDR BOTH ZERO A29871 02044019
         IΔ
               RO. 252
         SLL
               RO.24
         SR
               R1,R1
                                        INDICATES FREE ENTIRE SP
                                                                   A29871 02047019
         FREEMAIN R.LV=(0), A=(1)
                                        FREE SUBPOOL 252
                                                                   A29871 02050019
         LR
               R1,R11
                                    PARM LIST REPLACE PART
                                                                     1272 02060019
         GETMAIN
                  ,MF=(E+(1))
                                         REPLACE PARTITION
                                                                     CR17 02100017
               RO, GPSIZET
                                    REGION SIZE FOR TERMINATE
                                                                     1272 02110019
         LTR
               RO,RO
                                    TEST FOR NEW REGION
                                                                     1272 02120019
         BNE
               SD06305
                                   KEEP GWT FOR TERMINATE
SD06355
                                                                     1272 02130019
         LR
               R1,R11
                                   ADDRESS OF GWT TO BE FREED.
         DROP
               R11
                                                                    M4160 02160019
               RO, LCTP ARM4
                                         LOAD SUBPOOL + LENGTH
                                                                     CR17 02180017
         FREEMAIN R+LV=(0)+A=(1)
                                         FREE ITS CORE
                                                                     CR17 02220017
         XC
               LCTPARM3+X1(X3),LCTPARM3+X1 ZERO PTR TO GWT
                                                                     1272 02240019
SD06305
         EQU
                                                                     CR17 02260017
               R13.LCTCMCBA
                                         PROVIDE SAVE AREA
                                                                     SMF1 02268018
         LM
               RO,RI, IEFTCBAD
                                   TCR ADDRESS IN REG O. PTR TO
                                                                    M3441 02276019
                                  TIOT PTR IN REG ONE
                                                                          02284019
               R15, SMFAT
                                                                     SMF1 02292018
         BALR
               R14,R15
                                         GO TO SME TO BUILD TCTIOT
                                                                     SMF1 02300018
         LTR
               R9,R15
                                           THERE WAS SMF PRESENT FOR THIS JOB, R9 NOW
                                                                     SMF1 02308018
                                                                     SMF1 02316018
```

```
POINTS TO TOT
                                                                       SMF1 02324018
         USING SMFTCT.R9
                                                                            0233201R
         H/
                5063007
                                                                            02340018
         ST.
                RO.TCTWLMT
                                          ST JOB WAIT LIMIT IN RO
                                                                       SMF1 02348018
         MVC
                TCTSW(1).LCTTMWRK+R
                                          MOVE INDICATOR SET BY
                                                                       SMF1 02356018
                                               1FESD162 OF WHETHER
                                                                       SME1 02364018
                                               TIME LIMIT IS JOB OR
                                                                       SMF1 02372018
                                               STFP
                                                                       SMF1
                                                                            02380018
$063007
         FOU
                                                                            02388018
                R7.IEFUSAOD
                                       MOVE USER PARAMETER AREA FROM
         t
                                                                            02400000
         L
                R4,4(R7)
                                         SUBPOOL 253 TO SUBPOOL O
                                                                      18428 02420017
         LA
                R4,8(R4)
                                                                      18428 02440017
         IR
                R0, R4
                                                                            02460000
         GETMAIN R.LV=(0)
                                       CORE FROM SUBPOOL ZERO
                                                                            0244.0000
         LR
                RO. R4
                                RESTORE LENGTH VALUE
                                                                       M409 02490018
         BCTR
               R4,R()
                                       SUBTRACT ONE FROM R4
                                                                            02500000
         ΕX
                R4, IEFUSEP
                                       MOVE USER PARM
                                                                            02520000
         LA
                                     SET UP USER PARM
                R4,6(0,R1)
                                                                            02540017
         SI
                R4,0(0,R1)
                                          AREA
                                                                            02560000
         0.1
                O(R1),128
                                          SET HIGH ORDER BIT TO ONE
                                                                            02580000
         SIT
                R1, IEFUSADD
                                       UPDATE USER PARM ADDR
                                                                            02600000
       LR RI,R7
                                   LAAD ADDR OF USER PARM AREA
                                                                            02620000
                                    FREE SUBPOOL 253
                R7, SP00L253
         1.
                                                                      M3441 02650019
         ∩R
                RO,R7
                                                                            02680000
         FREEMAIN R, LV=(0), A=(1)
                                          FREE USER PARM IN 253
                                                                            02700000
                R9.R9
                                     CLEAR REG
         ŚR
                                                                       1241 02702018
         LH
                RO, ATOPMOD
                                    LOAD DEMOD
                                                                       1270 02704019
         LTR
                RO.RO
                                     IS DPMOD NEGATIVE
                                                                       1241 02706018
         BL
                SD06310
                                     YES, BRANCH AND CONTINUE
                                                                       1241 02708018
         CHAP
                (0)
                                     NO. CHAP INIT UP
                                                                       1241 02710018
                R9+R0
                                     LOAD NEGATIVE VALUE IN REG TO
         INR
                                                                       1241 02712018
                                       SAVE ACROSS ATTACH
                                                                       1241 02714018
SD06310
         LM
                R1, R6, IEFPARAM
                                    PARMS INTO REGS
                                                                       1272 02734019
                R7.TCBTIOT(0.R5)
                                          SAVE THE POINTER TO THE
         L
                                                                            02800000
                                          INITIATOR'S TIOT
                                                                            02820000
                                         STORE PTR TO THE JOB STEP TIOT 02840000 INTO INITIATOR'S TCB FOR ATTACH 02860000
         MVC
                TCHTINT(4,R5),0(R6)
                                          (R6 POINTS TO TIOT LIST)
                                                                            02880000
         SR
                R11,R11
                                    CLEAR REGISTER
                                                                            02882016
                8(R3),X 80
         TM
                                         No. 3. BRANCH
                                                                            02884016
         BC
                8,AGG1
                                                                            02986016
         L
                R11,8(R3)
                                    SET R11 NEGATIVE
                                                                            02888016
                8(R3),X'80'
         Χī
                                     TURN OFF BIT IN ATTACH LIST (FCB)
                                                                            02890016
AGG1
         EQU
                                                                            02892016
                R15.R3
         LR
                                          ADDRESS OF SUPERVISOR L LIST
                                                                            02900000
         DROP
               R3
                                                                      M4005 02900119
                R3,TCBJBL(R5)
                                    SAVE OUR JOBLIB PTR
                                                                      M4005 02900219
                TCBJBL(X4,R5),LCTJDBLB PUT NEW PTR FOR ATTACH
                                                                      M4005 02900319
**************
                                                                            02900519
                                                                            02901019
  SINCE THIS MODULE RESIDES IN THE LINK PACK AREA. THE ATTACH
                                                                            02901519
  PARAMETER LIST IS GOTTEN IN 1EFSD162 AND INITIALIZED IN
                                                                            02902019
 TEFSD103, BOTH OF WHICH RUN IN THE INITIATOR REGION.
                                                           THE
                                                                            02902519
* ADDRESS OF THE COMPLETED PARM LIST IS PART OF THE INPUT TO
                                                                            02903019
  THIS MODULE. THE FIELDS INITIALIZED AND OPTIONS SELECTED FOR
                                                                            02903519
  THE SUBTASK ARE OUTLINED HERE.
                                                                            02904019
                                                                            02904519
```

```
KEYWORD SATISFIED
                              INFORMATION PROVIDED
                                                                          02905019
                              ENTRY POINT NAME
                                                                          02906019
         ROLL
                              ROLLOUT CRITERIA
                                                                          02906519
                               JOBLIB DCB ADDRESS
         DCH
                                                                          02907019
                                                                          02907519
                               ECB WAITED ON BY INITIATOR
         ECB
         LPMOD
                               LIMIT PRIDRITY
                                                                          02908019
         DPMOD
                               DISPATCHING PRIORITY
                                                                          02908519
                              HIERARCHY INFORMATION
         HIARCHY
                                                                          02909019
                                                                          02909519
 IN ADDITION THE PARAMETER LIST HAS BEEN INITIALIZED TO CAUSE
                                                                          02910019
  THE FOLLOWING PROCESSING BY THE ATTACH SERVICE ROUTINE.
                                                                          02910519
                                                                          02911019
                                                                          02911519
        TCB IS INITIALIZED AS A JOB STEP TCB.
                                                                          02912019
        THE JOB PACK AREA QUEUE POINTER IS PROPAGATED FROM THE
                                                                          02912519
                                                                          02913019
        INITIATOR'S TOB
                                                                          02913519
                                                                          02914019
        A 72 BYTE REGISTER SAVE AREA IS PROVIDED FOR THE
        INITIAL ROUTINE OF THE JOB STEP
                                                                          02914519
                                                                          02915019
        THE PROTECT KEY IS PROPAGATED FROM THE INITIATOR'S TOR
                                                                          02915519
                                                                          02916019
        THE TASK IS SET TO RUN IN PROBLEM PROGRAM MODE.
                                                                          02916519
                                                                          02917019
        SUBPOOL ZERO IS SHARED WITH THE PROBLEM PROGRAM.
                                                                          02917519
                                                                          02918019
        THE JSCB ADDRESS IN PLACED IN THE SUBTASK'S TCB
                                                                          02918519
                                                                          02919019
02919519
         ATTACH MF=(E_{\bullet}(1))_{\bullet}SF=(E_{\bullet}(15))
                                                                          02920000
               R3.TCBJBL(R5)
                                   RESTORE JOBLIE POINTER
                                                                    M4005 02920719
                                        ADDRESS OF CSCR
                                                                     1272 02921019
               R3.LCTQDRTY
                                                                     1272 02922019
                                    CSCR ADDRESSABLIITY
         USING IFFCSCB+R3
                                   STORE TOH ADDRESS IN CSCR
IS TOR HIT TO BE SET FOR GRAPHICS
               R1, CHSPH
                                                                     1272 02922519
         ST
         LTR
               R11,R11
                                                                          02924016
               AGG2
                                   PRANCH IF NO
                                                                          02928016
         BZ
               20(R1) +X *20 *
                                    SET TOBGRPH BIT IN TOB
                                                                          02932017
         OI
AGG2
         EQU
                                                                          02936016
                                         SAVE ATTACHED JOBSTEP TOB ADDR
                                                                          02940000
         LR
               R11,R1
                                        RESTORE THE POINTER TO THE
               R7,TCBTIDT(0,R5)
         ST
                                                                          02960000
                                         INITIATOR'S TIOT
                                                                          02980000
                                                                     MP65 02982018
               R1,CVTPTR
                                    GET CVT ADDRESS
               CVTDCB(R1), MP65FLAG
                                    TEST IF MULTIPROCESSOR
                                                                     MP65 02984018
         TM
               MPNDBYPS
                                    NO. JORSTEP NOT RUNNING
                                                                     MP65 02986018
         BZ
               RO, MPNDFLGS
                                    PARM FOR STATUS SVC
                                                                     MP65 02988018
         LA
               R1,Q0(,R11)
                                    PASS JUBSTEP TOB ADDRESS
                                                                     MP65 02990018
                                    SET TOB NONDISPATCHABLE
         SVC
               STATUS
                                                                     MP65 02992018
MPNDBYPS EQU
                                                                     MP65 02994018
               RO, LCTTMWRK+4
                                         ADDRESS OF TIME INTERVAL
         LΑ
         LR
               R10,R0
                                         PUT ADDRESS IN R10
                                                                          03020000
         CLC
               HOURS24(4),0(R10)
                                        CHECK FOR INDICATION THAT STEP
                                                                          03040000
         вн
               SETTIME
                                        IS NOT TO BE TIMED
                                                                          03060000
                                        SET SWITCH TO INDICATE TIMER
         LA
               R7.1
                                                                          03080000
                                        WAS NOT SET
                                                                          03100000
                                        SET TIME REMAINING FIELD DE
         MVC.
               4(4,R10),TUHRS24
                                                                          03120000
                                        TIMER WORK AREA TO 1440 MIN
                                                                          03140000
```

```
SO THAT IF THIS IS A CATALOGED
                                                                            03160000
                                         PROCEDURE THE REMAINING STEPS
                                                                            03180000
                                         WILL ALSO NOT BE TIMED
                                                                            03200000
               BYPASS
                                         BRANCH AROUND STIMER MACRO
                                                                            03220000
SETTIME
               R7.R7
                                         SET SWITCH TO INDICATE TIMER
                                                                            03240000
                                         WAS SET
                                                                            03260000
         STIMER TASK, EXIT, BINTVL = (0)
                                          SET TIMER
                                                                            03280000
BYPASS
         FOIL
                                                                            03300000
               R6+LCTPARM1
                                   ADDRESS OF SYS TASK PARM
                                                                       1272 03301019
         LA
               R6.XO(R6)
                                   CLEAR HIGH ORDER BYTE
                                                                       1272 03302019
         LTR
                                   TEST FOR SYSTEM TASK
               R6+R6
                                                                       1272 03303019
         BE
                NONSYSTK
                                   BRANCH NOT SYSTEM TASK
                                                                       1272 03304019
                XO(X16,R6), LCTPARM1 INITIALIZE PARM LIST
         MVC
                                                                       1272 03304519
               R1,SP00L253
                                   FREE SUBPOOL 253
                                                                     M3441 03305519
                                   LENGTH OF LCT
         LA
               RO, IEFEND-IEFLOT
                                                                       1272 03307019
                                    SP AND LENGTH IN REG O
         OR
               RO,R1
                                                                       1272 03308019
         FREEMAIN R.LV=(0),A=(4)
                                   FREE LCT
                                                                       1272 03309019
                                    ADDRESS OF PARM AREA
         12
               R13.R6
                                                                       1272 03310019
         В
                GOWAIT
                                                                       1272 03311019
NONSYSTK LA
                R13, LCTPARMI
                                    ADDRESS OF PARM IN LCT
                                                                       1272 03312019
GOWAIT
         EΩU
                                                                       1272 03313019
         LR
               R1,R2
                                          ADDRESS OF ECH LIST
                                                                            03320000
                                          ADDRESS OF CANCEL ECH
                R2.4(0.R1)
                                                                            03340000
         L
                TCBPKF+5(R11),255-STMCFLAG SET TCB DISPATCHABLE
         NI
                                                                       MP65 03350018
                ECBLIST=(1)
                                                                            03360000
                RO,R9
                                     DID INIT HAVE TO CHAP UP
         ITR
                                                                       1241 03360418
         ΒZ
                SD06320
                                     NO, BRANCH AND CONTINUE
                                                                       1241 03360818
                                     CHAP INIT BACH DOWN
         CHAP
                (0)
                                                                       1241 03361218
                TCBPOE(X4,R5),TCBPQE(R11) UPDATE PQE PT IN INIT TCB 1272 03362219
SD06320
         MVC
         CLI
                XO(R13).PKEZERO
                                    IS PROTECT KEY TO BE ALTERED
                                                                       1272 03364619
                SD63020
                                    BRANCH NO
                                                                       1272 02367619
         ВZ
         MVC
                TCBPKF(X1,R5),XO(R13) RESTORE PROTECT KEY INIT TCB
                                                                      1272 03370619
SD63020
         EQU
                                                                       CR17 03374017
                                         CHECK TO SEE IF TIMER WAS SET
         LTR
               R7.R7
                                                                            03380000
                2, NOTEST
         BC
                                         IF NOT BRANCH AROUND TTIMER
                                                                            03400000
         TTIMER CANCEL
                                          TEST TIMER
                                                                            03420000
                R9,TCBTCT(R5)
                                   GET PTR TO
                                                                       1272 03421019
                                          TCT
         LA
                R9,0(R9)
                                                                        SMF 03423018
                                         DOES SME APPLY
         LTR
                R9, R9
                                                                       SMF1 03424018
               NOSME
         ΒZ
                                         NO
                                                                            03425018
         LM
                R14,R15,TCTSTOF
                                         GET TIME EXTENSIONS IF ANY
                                                                       SMF1 03426018
                                         AND CLEAR EXT FLD
         XC
                TCTSTOF(8).TCTSTOF
                                                                       SMF1 03427018
                                         CONVERT TO TO HUND SEC
                                                                       SMF1 03428018
         Ð
                R14, CON385
                                         ADD IN ORIG VALUE
                R15,0(R10)
                                                                       SMF1 03429018
         Δ
         ST
                R15,0(R10)
                                         SAVE ADJ VALUE
                                                                       SMF1 03430018
NOSME
         FQU
                                                                            03431018
         SI
                RO,4(R10)
                                          SAVE TIME REMAINING
                                                                            03440000
NOTEST
         EQU
                                                                            03460000
         TM
                O(R2).POSTBIT
                                          WAS CANCEL SPECIFIED ?
                                                                            03580000
         B7
                SD63010
                                          NΩ
                                                                            03600000
                                                                       1272 03604019
         CLI
                CHSPC+X1.SYSCNCL
                                         CHECK TO SEE IF THE
         BF
                CODE422
                                          SYSTEM CANCELLED JOB
                                                                       1272 03606019
         TM
                X0(R2),X32
                                     WAS JOB CANCELLED WYOUT DUMP
                                                                       1272 03608019
         BZ
                SD06710
                                                                       1272 03610019
         MVC
                CHSPC(X4),CODE1
                                          MOVE IN ABEND CODE
                                                                       1272 03612019
                SD06730
                                     CONTINUE PROCESSING
                                                                       1272 03614019
$006710
         EΩU
                                                                       1272 03616019
```

```
ΤM
                X0(R2),X16
                                     WAS JOB CANCELLED WITH DUMP
                                                                       1272 03618019
         Βz
                $006720
                                                                       1272 03620019
                                          NI
                CHSPC(X4),CODE2
         MVC
                                          INDICATE DUMP
                                                                       1272 03422010
         R
                SD06730
                                          CONTINUE
                                                                       1272 03624019
$D06720
         EQU
                                                                       1272 03626019
         MVC
                CHSFC(X4), CODE3
                                          TIMER EXPIRED - DUMP
                                                                       1272
                                                                            PIORSAED
                SD06730
                                     CONTINUE
                                                                       1272 03630019
C0DE422
         EQU
                                                                       1272 03632019
         MVC
                CHSPC(X4) . CODE4
                                        MOVE SYSTEM CANCEL CODE
                                                                       1272 03634019
SD06730
         EQU
                                                                       1272
                                                                            03636019
         O.I
                TCBFLGS+X1(R11),TCBSTI
                                          INDIC NO STAE OPERATIONS
                                                                       1272 03638019
         01
                CHSTS, CHABTERM
                                     INDICATE ABTERM FOR SVC 34
                                                                       1272 03640019
         LΔ
                R1,X0(R3)
                                     ADDRESS OF CSCB
                                                                       1272 03642019
         MGCR
                (1), CHAIN
                                          GO TO ARTERM VIA MASTER
                                                                       1272 03644019
                                     ADDRESS OF ATTACH FCB
         LA
                R1.IEFAECH
                                                                       1272 03646019
         TIAW
              ECB=(1)
                                          WAIT ON ATTACH ECB
                                                                       1272 03648019
SD63010
         SR
                RO.RO
                                     CLEAR REGISTERS TO INDICATE
                                                                            03653019
         SR
                R1 • R1
                                     FREE ALL OF SUBPOOL ZERO
                                                                            03658019
                    R, LV=(0), A=(1)
         FREEMAIN
                                      SUBPOOL ZERO
                                                                            03663019
                R10, X12(R13)
                                    SAVE SP AND LENGTH OF GWT
                                                                       1272 03668019
                                    ADDRESS OF GWT
                K7.X8(R13)
                                                                      M4160 03673019
         LΔ
                97,XO(R7)
                                    ZERO HIGH ORDER BYTE
                                                                      M4160 03678019
         ST
                R3, X8(R13)
                                    STORE CSCB ADDRESS
                                                                      M4160 03683019
         MVC
                X8(X1,R13),TCBDSP(R11) MOVE DISPATCHING PRIDRITY
                                                                      M4160 03688019
         MVC
                CHPKE(X1), TCBPKF(R11) SAVE PROTECT KEY IN CSCH
                                                                      M3767 03700719
         MVC
                X0(X1,R13),TCHFLGS(R11)
                                         SAVE TOBFLGS
                                                                       1272 03701019
         MVC
                X1(X3+R13)+TCBTCT+X1(R11) SAVE TCT PTR
                                                                       1272 03701519
                X12(X4,R13),TCBTCC(R11) SAVE TASK COMPLETION CODE
         MVC
                                                                       1272 03702019
         ΧC
                TCBFSA+X1(X3,R11),TCHFSA+X1(R11)
                                                                       1272 03702519
                                          ZERO PGM SAVE AREA PTR
                                                                       1272 03703019
                                    ADDRESS OF SUBTASK TCB
               R1.CHSPB
                                                                       1272 03703519
         DETACH (1)
                                                                       1272 03704019
         USING GETPTWT.R7
                                                                      M4160 03704619
         LTR
                R7, R7
                                    DHES GWT STILL EXIST
                                                                            03705219
         BE
                                     BRANCH NO GWT
                SD06330
                                                                       1272 03706019
         π
                R14, LCTTCBAD
                                    GET INITIATOR'S TOB.
         ΙL
                R14,12(R14)
                                    BUMP TO THE TIOT.
         CLI
                O(R14),CIF!
                                    FIXED INITIATOR?
                SD06330
         IBE
                                    BRANCH TO KEEP CURRENT REGION.
         FREEMAIN R.SP=247
                                    FREE REGION
                                                                       1272 03707519
         MVI
               GPSUBP, POOL 247
                                    INDICATE GET REGION
                                                                       1272 03708019
                GPADDHO(X8), GPADDHO ZERO SPECIFIC ADDRESS
         XC
                                                                       1272 03708519
         TM
               X7(R13), LCTIHIER
                                    TEST HIERARCHY
                                                                      M2696 03709019
         BO
                SD06328
                                     BRANCH HIERARCHY 1
                                                                       1272 03709519
         MVC
               GPSIZEHO(X4), GPSIZET
                                      MOVE REGION SIZE
                                                                       1272 03710019
         MVI
                GPSIZEHO, ENDLIST
                                     INDICATE END OF LIST
                                                                       1272 03710519
         В
               SD06329
                                                                       1272 03711019
SD06328
         MVC
                GPSIZEH1+X1(X3),GPSIZET+X1
                                                                       1272 03711519
SD06329
         LR
               R1,R7
                                    ADDRESS OF GWT IN REG ONE
                                                                      M2695 03712019
         GETMAIN , MF=(E,(1))
                                         GET NEW REGION
                                                                       1272 03712519
         LR
               R1, R7
                                    ADDRESS OF GWT TO BE FREED
                                                                      M4160 03713019
         LR
               RO.R10
                                    SP AND LENGTH
                                                                       1272 03713519
         FREEMAIN R, LV=(0), A=(1)
                                                                       1272 03714019
SD06330
         EQU
                                                                       1272 03714519
         ST
               R6,X16(R8)
                                    STORE ADDRESS OF PARM AREA FOR
                                                                       1272 03715519
                                    SYSTEM TASKS. R6 WILL BE ZERD
                                                                       1272 03716019
                                    FOR NON SYSTEM TASKS.
                                                                       1272 03716519
```

	LR	R1,R8	PARAMETER LIST POINTER		03720000
	XCTI.	EP=IEESD100.ME=(E.			03740000
FXIT	FOL	ranger in the state of the sta	EXIT RIN USED WHEN TIMER EXP		03760019
1 7 1 1	LR	R1.R2			-
	F #		CANCEL FCR		03760000
	POST (	RTOKIW 111	SAVE REG 14 POST CANCEL FCB		03800000
	FR (	R14,87	RESTORE REGISTER 14		03820000
	RETURA		KESTORE KEGISTER 14		
HOUR \$24	DC	F186400001	1770 MINUTERITOR HUMBERT	ac or	03860000
#UUK 524	DC	F188470001	1440 MINUTES(IN HUNDREDTE SECONDS)	15 UP	03880000 03900000
TUHR S24	nc	XIC51	1440 MINUTES IN TIMER UNITS	12/007	03920019
111111111111111111111111111111111111111	DC	X'C1'	IF SPECIFIED ON EXECUTE CARD	A24887 A24887	
	DC	X1001	THE JOH IS NOT TO BE	-	03940019
	DC	X1001	TIMED	A24887	03960019
٨	ns ns	F	M(C()	A24887	03990019 04020000
A ALLCARE	DC	X'00FFFFF8!			04040000
SPOUL253		X'ED000000'		Makki	
MPNOFLGS			CTATELACY CTATUS CVC DADMS		04041019
CON385	DC	AL2(STMCFLAG).AL2(: F'385'		MP65	04043018
			TU TO HUND SEC		04046018
SMFAT	DC.	V(IEFSMFAT)	SMF TOT BUILDER		04052018
ΧÜ	FOU	0			04052419
XI	FOU	1_			04052819
х3	FQU	3			04053219
X 4	EOU	4			04053619
X8	FOU	8			04054019
X16	FOU	16	DISPLACEMENT		04054419
x 32	EOU	32	DISPLACEMENT		04054819
SYSCHOL	EQU	X 1421	SYSTEM CANCEL INDICATOR		04055219
POOL 247	FOU	247			04055619
ENDLIST	FOU	X 180 1			04056019
PPAREND	EOU	X1801		1272	04056419
TCBFSA	EOU	112			04056819
TCBFLGS	EQU	29			04057219
TCHPOE	EON	X 198 !			04057419
TCBSTI	EOU	X1401			04057619
CODE 1	DC	X 1002220001	JOB CANCELLED - NO DUMP		04058019
CODES	DC	X'80122000'	JOB CANCELLED - DUMP		04058419
CODE3	DC	X'80322000'	TIMER EXPIRED - DUMP		04058819
CODE4	DC.	X 1004220001	EXCEEDED SPEC QUEUE SPACE	1272	04059219
POSTRIT	E011	X 1401			04060000
PKEZERO	EOU	X 1001			04062019
TC3TCC	FOU	X!10!			04064019
TCRPKE	EQU	28			04066019
TCBDSP	EOU	X 123 1			04067019
X 6	EQU	6			04068019
X7	EOU	7			04069019
X12	FOU	12			04070019
X24	EDIJ	24			04072019
TOORE	EDU	253		1272	04074019
1 E F US E P	MVC		USER PARM FROM 253 TO ZERO		04080000
TCBJBL	EOU	40	JOBLIB POINTER DISPLACE	MENT IN	
x(c			TCB		04120000
TCBTIOT	FOU	12	TIOT PTR DISPLACEMENT I		04140000
TUBTOT	EQU	164	*	SMF1	04150018
IEFPARAM					04160000
IEFUSADD		F	ADDRESS OF USER PARAMETI	ERS	04180000
IEFECBLA	ns	F	ADDRESS OF ECB LIST		04200000

```
ADDRESS HE SHPERVISER L LIST
TEFREMLS DS
                                                                      04220000
IEFLCTAD DS
                                       ADDRESS OF LCT
                                                                       04240000
IFFTCBAD DS
              F
                                       ADDRESS OF TOB
                                                                       04260000
IEFTIOTA DS
                                       ADDRESS HE LIDT
                                                                       042800000
                                      ADDRESS OF DOB
TEFDCBAD DS
                                                                 1270 04290019
IEFECBLI DS
                                       FCB LIST
                                                                       04300000
TEFAECH DS
                                       ATTACH FUR
                                                                       04320000
TEFPLEND FOU
              ᆄ
                                                                       04328019
IEFPSIZE EQU
              IFFPLFNII-IEFPARAM
                                                                       04336019
        IEFTCT
                                                                       04344018
DEC246
        EQU
                                      NUMERIC FOUATE
                                                                       04348018
              246
                                      NUMERIC FOUATE
        FOU
                                                                       04352018
DEC24
              24
DECO
        EQU
                                      NUMERIC EQUATE
                                                                       04356018
* 04400000
        THE FOLLOWING REPRESENTS A BLOCK OF MAIN STORAGE WHICH IS
                                                                     * 04420000
        ALLOCATED FOR THE LIFE OF
                                                                     * 04440000
        OF THIS INITIATOR. IT CONTAINS:
                                                                     * 04460000
                                                                     * 04480000
                   THE LCT (LINKAGE CONTROL TABLE)
                                                                     * 04500000
                   A 2 LEVEL REGISTER SAVE AREA FOLLOWED BY THE THE QUEUE MANAGER PARAMETER AREA
              (2)
                                                                     * 04520000
                                                                     * 04540000
                   AN ALTERNATE QUEUE MANAGER PARAMETER AREA
                                                                     * 04560000
                                                                     * 04580000
  IEFLOT
        DSECT
                                                                       04620000
  TEFALLOT
                                                                       04640000
LCTRATMN DS
                 *****TO BE ADDED TO LCT
                                                                       04660000
                 *****TO BE ADDED TO LCT(VMS ONLY) POINTER TO
LCTSOOMP DS
              F
                                                                       04680000
                      SYSOUT QUEUE MANAGER PARAMETER AREA
                                                                       04700000
LCTRTRN DS
                 *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR'S
                                                                       04720000
                      RETURN POINT
                                                                       04740000
LCTINTSW DS
              OF
                                 INITIATOR INTERNAL SWITCHES
                                                                  1272 04742019
LCTIHIER EQU
              128
                                 RUN IN HIERARCHY ONE
                                                                  1272 04744019
LCTSDOXX EQU
              32
                                 ATTACH IEFSDOXX
                                                                  1272 04746019
LCTMINEG EQU
              16
                                 JOB FLUSH - USE MINPAR
                                                                  1272 04748019
LCTSTART EQU
                                 TASKNAME NOT ON COMMAND
                                                                  1272 04750019
              8
LCTSTOP EQU
LCTCSCB DS
                                 INITIATOR INTERNAL STOP
                                                                  1272 04752019
              4
              F
                 *****TO BE ADDED TO LCT(VMS ONLY) INITIATOR CSCB
                                                                       04760000
                      ADDRESS
                                                                       04780000
LCTTMWRK DS
              4F ****TO BF ADDED TO LCT(VMS ONLY) TIMER WORK AREA
                                                                       04800000
LCTJOBLB DS
              F
                 *****TO BE ADDED TO LCT(VMS ONLY) JOBLIB DCB PTR
                                                                       04820000
                 *****TO BE ADDED TO LCT(VMS ONLY)
LCTATEST DS
                                                   POINTER TO
                                                                       04840000
                      ALLOCATE/TERMINATE PARAMETER LISTS
                                                                       04860000
REGSAVE
        DS
              36F
                                       REGISTER AVE AREA
                                                                       04880000
OMGR 1
        ns
              95
                                       QUEUE MANAGER PARAMETER AREA
                                                                       04900000
QMGR2
        ns
              9F
                                       ALTERNATE QUEUE MANAGER AREA
                                                                       04920000
        DS
              8F
                                                                  1272 04920919
   THESE FIELDS ARE NEEDED FOR L-SHAPE/INIT MERGE
                                                                  1272 04921819
        DS
              OF
                                                                  1272 04922719
LCTOPSW1 DS
              OC.
                                  INITIATOR OPTIONS BYTE 1
                                                                  1272 04923619
LCTPKEYF EQU
                                  DON'T GET PROTECT KEY
              128
                                                                  1272 04924519
                                  DANT PROCESS DEDICATED WORKE
                                                                  1272 04925419
LCTOWER
        FQU
              64
LCTSTMDF EQU
              32
                                  DONT PROCESS STOP/MODIFY
                                                                  1272 04926319
LCTMINPF EQU
                                  GET REGION SIZE SPECIFIED
              16
                                                                  1272 04927219
LCTCANF
        EQU
              8
                                  ALLOW CANCEL ONLY AT ALLOC
                                                                  1272 04928119
LCTONEJF EQU
                                  PROCESS ONLY ONE JOB
                                                                  1272 04929019
```

			-104-		
LCTICMDF	EQU	2	DONT PROCESS INITIATOR CMDS	1272	04929919
LCTEX1T	DS	F	ADDRESS INITIATOR EXIT LIST	1272	04930819
LCTOPSW2	ns .	OC	INITIATOR OPTIONS BYTE 2	1272	04931719
LCTTIMER	EQU	128	DONT TIME THIS JOB	1272	04932619
LCTCRF	EQU	64	DONT ALLOW CHECKPT/RESTART	1272	04933519
LCTDSOF	EQU	32	DONT PROCESS DSO	1272	04934419
LCTINTHO	EQU	16	EXECUTE INITIATOR IN HIER O	1272	04935319
LCTINTHL	EQU	8	EXECUTE INITIATOR IN HIER 1	1272	04936219
LCTCOM	ns	F	COMMUNICATIONS PARM AREA PTR	1272	04937119
LCTUSCA	ns	F	ADDRESS OF JSCB		04938019
IEFEND	FQU	*	END OF LIFE-OF-TASK BLOCK		04940000
*			ORDER BYTE OF R15		04960000
<b>IEFCSCB</b>	DSECT			1272	08960019
IEECHAIN	٧			1272	12960019
GETPTNT	DSECT				16960019
GPSIZEA	DS	1F	CONTAIN THE ADDRESS OF THE REGION SIZE LI	LS17	20960019
GPADDLT	DS	16	CONTAIN THE ADDR OF ADDR LIST FOR THE HIE		
GPCODE	DS	X * O *	CONTAIN 80 TO INDICATE UNCONDITIONAL REGU	LS17	28960019
GPSUBP	DS	X ' 0 '	CONTAIN SUBPOOL 247 OR 246	LS17	32960019
	DS	H'0'		LS17	36960019
GPHIARCO	DS	OF	CONTAINS OO	LS17	40960019
GPANDHO	DS	1F	CONTAINS ADDRESS(SPECIFIC) , ZERO(NON-SPEC	LS17	44960019
GPH I AR C 1	DS	OF	CONTAINS 01	LS17	48960019
GPA DDH1	DS	1F	CONTAINS ADDRESS(SPECIFIC) .ZERO(NON-SPEC	LS17	52960019
GPS IZEHO	DS	1 F	SIZE OF HO	LS17	56960019
GPS [ZEH]	ÐS	1F	SIZE OF HI	LS17	60960019
GPSIZEPP	DS	15	REGION SIZE FOR P/P	1272	64960019
GPS IZET	DS	1 F	REGION SIZE FOR TERMINATE	1272	68960019
<b>GPADDHOR</b>	DS	1F	ORGINAL ADDRESS		72960019
GPMINPAR	DS	1F	247 + MINIMUM REGION SIZE	CR17	76960019
IEZATTCH					80960019
	END				84960019